

# Badger

## SHEET METAL PRODUCTS

BADGER CORRUGATING CO.

LA CROSSE, WISCONSIN

CATALOG  
39

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**Mike Jackson, FAIA**



# ***Badger***

## Sheet Metal Building Products

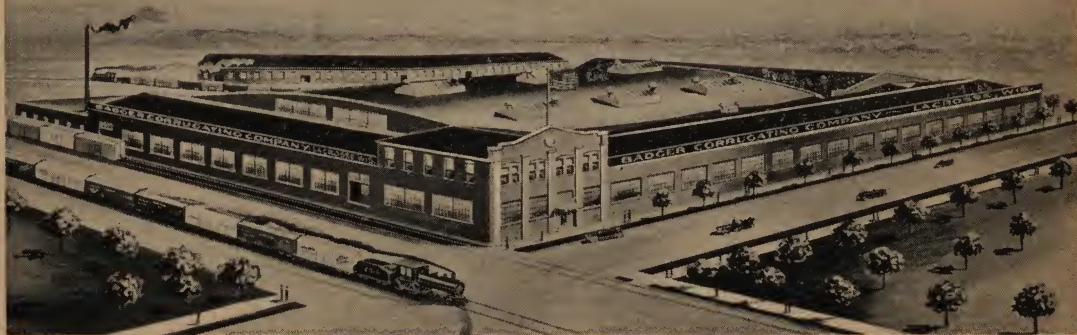
CATALOG 39

MANUFACTURED BY  
**BADGER CORRUGATING CO.**

Phone 3650 -  
1801 WEST AVE. SO.

Post Office Box 827  
LA CROSSE, WIS.

GUST F. SEXAUER - - Pres. and Gen'l Mgr.  
C. B. SEXAUER - - - - Vice President  
E. N. KNOTHE - - - - - Secretary







## "Badger" One-Piece Mitres



To insure long life, Badger Mitres are all Galvanized after forming. All Mitres from 3½ in. to 6 in. are ½ in. bead. Larger sizes have ¾ in. bead.

List Prices Per Dozen

Made from Galvanized Steel, Galvanized Toncan Metal, and Pure Copper.

Single Bead—Lap Joint						Double Bead—Lap Joint					
Sizes	3½"	4"	5"	6"	7"	Sizes	3½"	4"	5"	6"	7"
Nos. 28, or 26, Ga.						Nos. 28, or 26, Ga.					
16 Oz.	\$7.50	\$8.00	\$9.25	\$11.75	\$15.75	16 Oz.	\$10.50	\$11.00	\$12.25	\$14.75	\$18.75
Copper	\$10.80	\$11.40	\$13.20	\$20.04	\$25.80	Copper	\$13.80	\$14.40	\$16.20	\$23.04	\$28.80

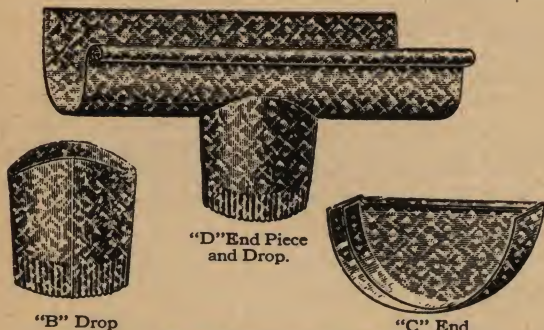
Single Bead—Slip Joint						Double Bead—Slip Joint					
Sizes	3½"	4"	5"	6"	7"	Sizes	3½"	4"	5"	6"	7"
Nos. 28, or 26, Ga.						Nos. 28, or 26, Ga.					
16 Oz.	\$10.50	\$11.00	\$12.25	\$14.75	\$18.75	16 Oz.	\$13.50	\$14.00	\$15.25	\$17.75	\$21.75
Copper	\$13.80	\$14.40	\$16.20	\$23.04	\$28.80	Copper	\$16.80	\$17.40	\$19.20	\$26.04	\$31.80

When ordering Slip Joint Mitres, state whether right or left hand is wanted, and whether for "Inside" or "Outside" Corner; Otherwise half rights and half lefts, and half "inside" and half "outside" Corner Mitres will be supplied.

## Badger Ends and Drops—Double Seamed

NOT SOLDERED—CANNOT LEAK OR COME APART

These End Pieces, in all points of construction, unquestionably are the best ever made; are very neat in appearance and Unequaled for Strength.



"B" Drop

"D" End Piece and Drop.

"C" End



"S" connection

D Ends are 12 inches long and made as follows:-

3½ inch and 4 inch with 2 inch drop  
4 inch and 5 inch with 3 inch drop  
6 inch and larger with 4 inch drop

List Prices Per Dozen

Made from Galvanized Steel and Galvanized Toncan Metal

No. 28 or 26 Gauges—Sizes	2"	3"	3½"	4"	5"	6"	7"
"B" Drop or Outlet Only	\$1.20	\$1.45	.....	\$1.80	\$2.35	\$2.90	.....
"C" Slip End Caps Only	.....	.....	\$1.80	1.90	2.00	2.40	\$2.90
"D" End Pieces with "B" Outlet, Single Bead	.....	.....	3.40	3.70	4.25	4.90	5.50
"D" End Piece with "B" Outlet Double Bead	.....	.....	4.15	4.35	4.90	5.60	6.45
"S" Slip Joint Connection	.....	.....	1.40	1.50	1.60	2.00	2.60

Made from Pure Copper

16 Ounce Copper—Sizes	2"	3"	3½"	4"	5"	6"	7"
"B" Drop or Outlet Only	\$3.60	\$4.80	.....	\$6.00	\$7.20	\$8.40	.....
"C" Slip End Cap Only	.....	.....	\$4.80	4.80	6.00	6.60	\$7.80
"D" End Piece with "B" Outlet, Single Bead	.....	.....	11.40	12.60	13.20	15.60	19.20
"D" End Piece with "B" Outlet, Double Bead	.....	.....	14.40	15.60	16.20	18.60	22.20
"S" Slip Joint Connection	.....	.....	3.00	3.25	3.50	4.25	4.75

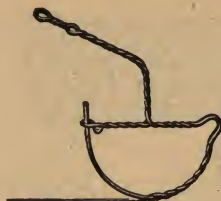




## BADGER WIRE EAVES TROUGH HANGERS



Triple Twist



Extension

Exceptionally strong. Made from heavy Galvanized Wire.

Packed 1 Gross in a Box.

List Prices per Gross. Both Styles.

	Single Bead	Double Bead
3½ inch.....	\$2.75	\$3.00
4 inch.....	2.75	3.00
5 inch.....	3.00	3.25
6 inch.....	3.50	3.75
7 inch.....	4.00	4.25
8 inch.....	4.50	4.75

Packed 96-8" stems; 48-10" Stems in Gross.

If all 10 inch stems are wanted, add 50 cents per gross.

## TITELOCK EAVES TROUGH HANGERS

Made from Galvanized Steel or Pure Copper



Easily applied with a pair of pliers. Made in Single Bead only.

List Price per Gross

	Galvanized	Copper
3½ inch.....	\$3.50	\$15.00
4 inch.....	3.75	16.50
5 inch.....	4.00	18.00
6 inch.....	5.50	30.00
7 inch.....	6.00	35.00
8 inch.....	6.50	40.00

Sizes 3½", 4" and 5" made from No. 16 gauge ⅝" Galvanized Steel, packed ninety-six 8" stems and forty-eight 10" stems to the gross; 6" made from No. 14 gauge ¾" Galvanized Steel, packed ninety-six 9" stems and forty-eight 12" stems to the gross; 7" and 8" made from No. 14 gauge ¾" Galvanized Steel, packed forty-eight 9" stems and twenty-four 12" stems to the half gross.

## STEEL STRAP AND ROD AND NUT EAVES TROUGH HANGERS



With Galvanized Cross Bar  
Packed 1 Gross per Box. List Prices per Gross.

Sizes	3½"	4"	5"	6"	7"	8"
Hangers with straps Riveted on Cross Bars, Single Bead	\$ 7.90	\$ 8.50	\$ 9.10	\$10.20	\$12.40	\$16.90
Hangers with Straps Riveted on Cross Bars, Double Bead	8.50	9.10	9.70	10.80	13.00	17.50
Hangers with Rods and Nuts complete, Single Bead	9.60	10.10	10.70	11.80	14.10	18.60
Hangers with Rods and Nuts complete, Double Bead	10.20	10.70	11.30	12.40	14.70	19.20
Galvanized Cross Bars only	6.10	6.80	7.30	8.30	10.70	14.10

HANGER TONG, List Each.....\$1.00



## "Badger" Conductor Pipe



Corrugated Round



Plain Round



Corrugated Square

All Sizes Made in 10-foot Lengths—250 feet in a Crate

List Prices Per Linear Foot

Made from Galvanized Steel, Galvanized Toncan Metal  
and Pure Copper.

Plain Round—Corrugated Round

Corrugated Square

Size, Inches	2	3	4	5	6	Size, Inches	2	3	4	5
28 Gauge.....	\$.18	\$.20	\$.28	\$.39	\$.50	Actual Size.....	1 3/4 x 2 1/4	2 3/4 x 3 1/4	2 3/4 x 4 1/4	3 3/4 x 5
26 Gauge.....	.23	.24	.34	.46	.58	28 Gauge.....	\$.23	\$.24	\$.31	\$.42
16 Ounce.....	.30	.36	.51	.69	.90	26 Gauge.....	.29	.30	.38	.50
						16 Ounce.....	.31	.40	.53	.75

Weight Per 1000 Ft. Conductor Pipe

Crated and Not Nested

Plain Round

Size	No. 28	No. 26	16 Oz. Copper
2"	575	650	705
3"	770	870	950
4"	1005	1140	1245
5"	1255	1420	1550
6"	1475	1675	1825

Corrugated Round

Size	No. 28	No. 26	16 Oz. Copper
2"	635	720	780
3"	770	870	950
4"	1005	1140	1245
5"	1255	1420	1550
6"	1475	1675	1825

Corrugated Square

Size	No. 28	No. 26	16 Oz. Copper
2"	635	720	750
3"	795	905	985
4"	1035	1180	1285
5"	1295	1475	1605





## Badger Conductor Pipe Elbows

Made of one piece. No soldered joints. Expand without breaking. Galvanized after forming.

### Corrugated Round



No. 0  
Angle 30 degrees



No. 1  
Angle 45 degrees



No. 2  
Angle 60 degrees



No. 3  
Angle 75 degrees



No. 4.  
Angle 90 degrees

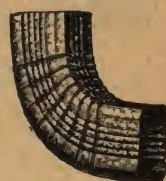


Shoe  
Angle 75 degrees

### Corrugated Square



Style A



Style B

Square elbows furnished in all angles.

### Plain Round



No. 0  
Angle 30 degrees



No. 1  
Angle 45 degrees



No. 2  
Angle 60 degrees



No. 3  
Angle 75 degrees



No. 4  
Angle 90 degrees



Shoe  
Angle 75 degrees

List Prices Per Dozen  
State size, gauge, angle and metal wanted

Plain Round and Corrugated Round						Square Corrugated Styles A and B			
Size, Inches	2	3	4	5	6	2	3	4	5
Galvanized Steel Elbows..	\$3.60	\$4.32	\$7.20	\$15.00	\$18.00	\$4.80	\$6.00	\$9.00	\$18.00
Galvanized Steel Shoes...	4.80	5.76	9.00	18.00	21.60	6.00	7.20	10.80	21.60
Galvanized Toncan Elbows	4.80	5.76	9.00	17.40	21.00	7.20	8.40	10.80	21.00
Galvanized Toncan Shoes	6.00	7.20	10.80	19.80	24.00	9.00	10.20	13.20	24.00
16 Ounce Copper Elbows...	9.00	12.00	18.00	27.00	37.80	10.80	14.40	21.60	33.00
16 Ounce Copper Shoes...	10.20	13.20	19.80	30.00	42.00	12.60	16.20	24.00	36.00

No. 3 Elbows always furnished when angle is not specified.



## “BADGER” Conductor Pipe Cut-offs



Corrugated Round



Corrugated Square

Also made Plain Round

Cut-Offs Without an Equal

Galvanized After Forming

List Prices Per Dozen

Made from Galvanized Steel and Galvanized Toncan Metal

No. 26 and 28 Gauges	2"	3"	4"	5"	6"
Corrugated Round.....	\$7.50	\$8.00	\$11.00	\$20.00	\$24.00
Plain Round.....	7.50	8.00	11.00	20.00	24.00
Corrugated Square.....	16.00	20.00	28.00	48.00	.....

Prices on Copper Cut-offs quoted upon request

## Young's Cut-offs



With Strainers

Made In Two Sizes Only of Galvanized Steel.

List Prices per Dozen

3 inch.....	\$17.00
4 inch.....	18.50



Style A

**Galvanized  
Conductor Reducers**

Made of one piece Heavy Galvanized Metal with Plain Round Ends. Bead at upper edge greatly stiffens and strengthens the Reducer.

List Prices per Dozen

Made from Galvanized Steel and Galvanized Toncan Iron.

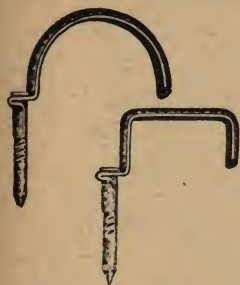
	28 Ga.	26 Ga.
For 2" Conductor Pipe.....	\$6.00	\$7.20
For 3" Conductor Pipe.....	8.00	9.60
For 4" Conductor Pipe.....	10.00	12.00

Prices on Copper Conductor Reducers quoted upon request.





## Badger Conductor Pipe Hooks and Hangers

**Direct Drive Wrought Conductor Hooks**
**Never-Slip Conductor Hooks**
**Corrugated and Plain Round Hinged Hooks**


For Wood Round



For Wood Square

For Brick Round

For Brick Square



For Wood or Brick



For Wood or Brick

**"Perfection" Wire Conductor Pipe Hanger**
**Malleable Iron Conductor Fasteners**

Half Round

Square



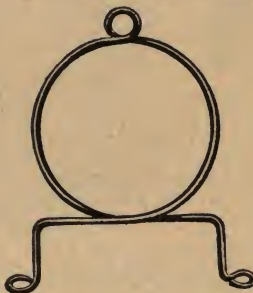
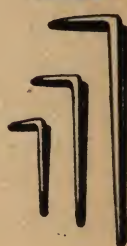
Wood



Brick



Wood or Brick


**Flashing Hooks**


### LIST PRICES PER HUNDRED DIRECT DRIVE WROUGHT CONDUCTOR HOOKS—Steel, Spot Welded and Galvanized After Formed

SIZES	2 inch	2½ inch	3 inch	4 inch	5 inch	6 inch
Round or Square						
For Wood	\$3.00	\$4.00	\$5.00	\$7.00	\$10.00	\$12.00
Round or Square						
For Brick	\$3.50	\$4.50	5.50	8.50	12.00	15.00

### HINGED CONDUCTOR HOOKS—MALLEABLE - TINNED

SIZES		2 inch	3 inch	4 inch	5 inch	6 inch
Corrugated	For Wood	\$11.00	\$13.00	\$20.00	\$24.00	\$32.00
Round	For Brick	11.00	14.00	20.00	25.00	34.00
Plain	For Wood	9.00	12.00	16.00		
Round	For Brick	11.00	13.00	16.00	27.00	

### PERFECTION WIRE CONDUCTOR PIPE HANGERS—Made of Galvanized Steel Wire

SIZE	2 inch	2½ inch	3 inch	4 inch	5 inch	6 inch
Gauge of Wire	12	12	11	10	9	8
Price per 100	\$2.00	\$2.25	\$2.50	\$3.00	\$3.50	\$4.00

### BADGER FLASHING HOOKS—TINNED

SIZES		1½ inch	2½ inch	3½ inch	5½ inch
Price per 100		\$1.10	\$1.80	\$2.70	\$6.00

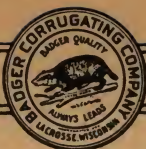
### Never-Slip Conductor Hooks—Malleable Iron, Galvanized

SIZE	2inch	2½ inch	3 inch	4 inch	5 inch	6 inch
For Wood	\$3.00	\$4.00	\$5.00	\$7.00	\$11.00	\$18.00
For Brick	4.00	4.50	6.00	10.00	17.00	20.00

### CONDUCTOR FASTENERS—Malleable Iron, Galvanized List prices per Dozen

SIZE	2 inch	2½ inch	3 inch	4 inch	5 inch	6 inch
Round or Square						
For Wood	\$1.20	\$1.30	\$1.50	\$2.25	\$2.40	\$3.50
Round or Square						
For Brick	1.20	.....	1.50	2.25	2.40	3.50





## Badger Ornamental Conductor Heads



Style F Head



Style G Head

Badger Ornamental Conductor Heads are constructed of Galvanized Steel, Galvanized Toncan Metal, Pure Zinc or Pure Copper. Furnished for Round or Square Pipe—2", 3", 4", 5" and 6" size.

When Ordering specify size and whether for round or square pipe.

We make all styles and sizes of Conductor Heads. Send specification for prices.

## Badger One-Piece Ornamental Conductor Bands

Made from one piece of metal in either Copper or Zinc.

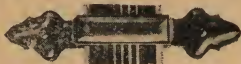


Style A

For use with square, plain round or Corrugated Round conductor pipe.



Style B



Style C

Styles B and C are made for use with square conductor pipe only.

Style A Bands furnished for 3" and 4" square or round pipe.

Styles B and C Bands furnished for 3" and 4" square pipe only.

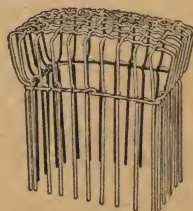
All styles packed flat for shipment. Use Copper straps for Copper Pipe and Zinc Straps for Zinc or Galvanized Pipe.

## Badger Conductor Pipe Strainers

Keep Conductor Pipes from clogging and cisterns free from refuse. Are made from Galvanized or Copper Wire in round and square styles.

List Prices Per Dozen

Size	ROUND		SQUARE	
	Galv.	Copper	Galv.	Copper
2"	\$ .75	\$1.80	\$2.25	\$3.20
3"	1.05	2.90	2.90	4.00
4"	1.85	4.20	4.80	8.00
5"	2.55	7.20	6.60	10.00
6"	3.00	8.25	....	....



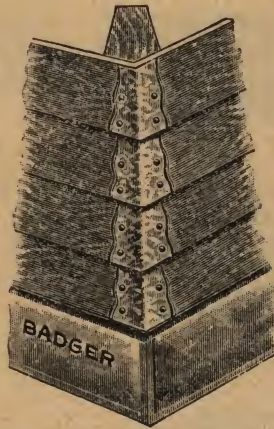
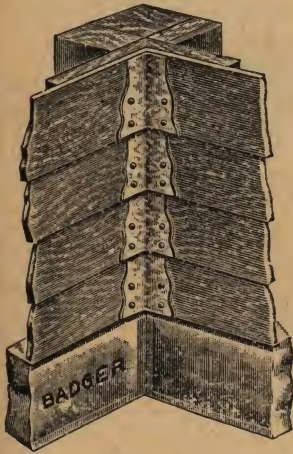




# “Badger” Metal Building Corners

## FOR LAP AND DROP SIDING

Metal Corners are being very extensively used and are very popular with the carpenter. They take the place of Cornerboards to finish the corner of the building when weatherboard or lap siding is used. Time and expense is saved because it is not necessary to mitre the Weatherboard siding. The mitre effect is perfect and the appearance superior to wood Cornerboard.



Showing Inside Corner Applied    Showing Outside Corner Applied    Showing Corner Applied to Drop Siding



Inside Corner



Outside Corner



No. 14 Drop Siding Corner

Building Corners Furnished with Plain or Beaded Edges and Countersunk Nail Holes.

No. 14 Drop Siding Corners Furnished in outside corners with Plain Edges Only.

### List Price and Weight per 1000 Galvanized

	List	Weight
No. 4-3½" long, weather board laid 3" to weather .....	\$24.00	80 Lbs.
No. 6-4½" long, weather board laid 4" to weather .....	26.00	100 Lbs.
No. 8-5½" long, weather board laid 5" to weather .....	28.00	120 Lbs.
No. 14-5-¾" long, for drop siding, laid 5" to weather .....	32.00	120 Lbs.

Above packed—Outside, 250 per box; inside, 250 per box.

### WE CAN ALSO FURNISH BUNGALOW CORNERS.

No. 10-8" long, weather board laid 7" to weather .....	\$40.00	170 Lbs.
No. 12-10" long, weather board laid 9" to weather .....	44.50	180 Lbs.

Nos. 10 and 12 made with plain edges ½" and ¾" base.  
Inside and outside packed 250 per box.





## Badger Box Gutters

### GUTTER DIMENSIONS



Style "E"

Size.....	5 in.	6 in.	7 in.	8 in.
Depth.....	3½ in.	4½ in.	5 in.	6¾ in.
Girt.....	13 in.	15 in.	18 in.	22 in.
Bead.....	5/8 in.	5/8 in.	5/8 in.	5/8 in.



Style "F"

Size.....	4 in.	5 in.	6 in.	7 in.	8 in.
Depth.....	3½ in.	4½ in.	5¼ in.	5½ in.	5¾ in.
Girt.....	13 in.	16 in.	18 in.	20 in.	22 in.
Bead.....	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.



Style "G"

Size.....	3½ in.	4 in.	5 in.	6 in.	8 in.
Depth.....	3¼ in.	4 in.	4¾ in.	6 in.	7½ in.
Girt.....	10 in.	13 in.	15 in.	18 in.	22 in.
Bead.....	½ in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.



Style "I"

Size.....	4 in.	5 in.	6 in.	7 in.
Depth Front.....	4 in.	4½ in.	5½ in.	5¾ in.
Depth Back.....	4½ in.	5¾ in.	6¾ in.	7¾ in.
Girt.....	12 in.	15 in.	18 in.	20 in.



Style "J"

Size.....	3½ in.	4 in.	5 in.	6 in.	7 in.
Depth.....	3¼ in.	3¾ in.	4¾ in.	5½ in.	6¾ in.
Girt.....	10 in.	13 in.	16 in.	18 in.	20 in.



Style "O"

Size.....	3 in.	3½ in.	4 in.	5 in.	6 in.
Depth.....	2½ in.	3½ in.	3½ in.	4 in.	5 in.
Girt.....	10 in.	11½ in.	13 in.	16 in.	18 in.

See Page 13 for List Prices

All styles of Badger Roof and Box Gutters in No. 28 and 26 gauges and Copper can be furnished with either Round or Square Bead—unless otherwise specified 5/8 inch round bead is furnished. No. 24 gauge furnished with square bead only.

Gutters shipped in 10 foot lengths with back same height as bead side unless special high backs are specified.

Size of girths shown are standard. Intermediate girths can be built to order and take same list price as next higher girths.





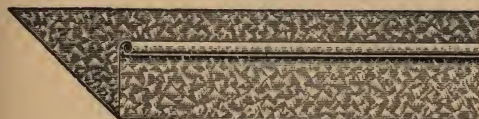
## Badger Roof Gutters



Style "A"

### GUTTER DIMENSIONS

Girt.....	12 in.	14 in.	20 in.	24 in.
Bead.....	$\frac{5}{8}$ in.	$\frac{5}{8}$ in.	$\frac{5}{8}$ in.	$\frac{5}{8}$ in.
Height.....	$3\frac{1}{4}$ in.	$4\frac{1}{8}$ in.	$5\frac{1}{2}$ in.	$6\frac{1}{8}$ in.



Style "B"

Girt.....	15 in.	20 in.	24 in.
Bead.....	$\frac{5}{8}$ in.	$\frac{5}{8}$ in.	$\frac{5}{8}$ in.
Height.....	$3\frac{1}{4}$ in.	4 in.	6 in.

### LIST PRICES PER FOOT ALL STYLES OF ROOF AND BOX GUTTER, PAGES 12 AND 13

Made from Galvanized Steel, Galvanized Toncan Metal and Pure Copper

GIRTH	10"	12"	13"	14"	15"	16"	18"	20"	22"	24"	26"	28"	30"
No. 28 Gauge	\$ .20	\$ .25	\$ .29	\$ .32	\$ .35	\$ .38	\$ .42	\$ .48	\$ .60	\$ .65	\$ .70	\$ .75	\$ .80
No. 26 Gauge	.24	.31	.36	.40	.43	.46	.50	.58	.65	.70	.75	.80	.90
No. 24 Gauge	.34	.40	.45	.50	.53	.56	.60	.68	.75	.80	.90	1.00	1.10
16 oz. Copper	.44	.50	.60	.70	.80	.85	.90	1.00	1.10	1.20	1.30	1.40	1.50

### ROOF GUTTER MITRES, ENDS AND OUTLETS

For all Styles of Gutters



Outside Mitre



Inside Mitre



End Piece



Square Outlet



Round Outlet

We can furnish outside and inside Mitres, Ends and Outlets for use in connection with any style, girt or gauge of Gutter illustrated above or on proceeding page.

When ordering roof gutter Mitres state whether inside or outside corners are wanted. Write for net prices on Mitres, Ends and Drops.

### ROOF AND BOX GUTTER HANGERS



Made from Heavy Galvanized Bands or Pure Copper.

#### List Price Each

	Galv.	Copper
10 inch.....	\$0.12	\$ .50
12 inch.....	.13	.56
14 inch.....	.14	.62
16 inch.....	.15	.70

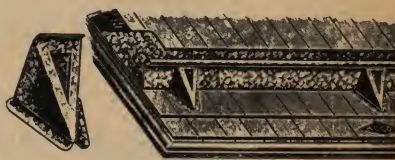
### GUTTER SPIKES AND FERRULE GALV. STEEL



#### List Prices

Gutter Spikes	Spikes are
$\frac{3}{16}$ x 7 in.....	galvanized,
$\frac{1}{4}$ x 8 in.....	have oval
	heads and
Ferrules	chiseled
.03 cents each	points.

### STYLE "B" GUTTER BRACKET



Made in two sizes from Galvanized Steel.

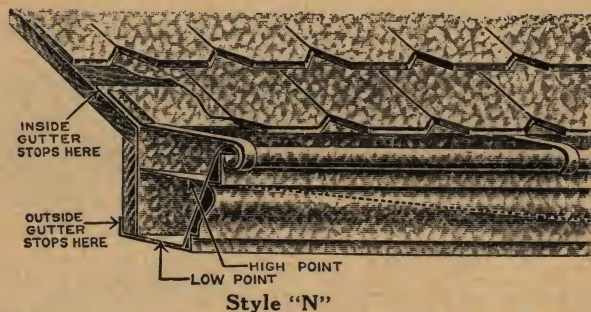
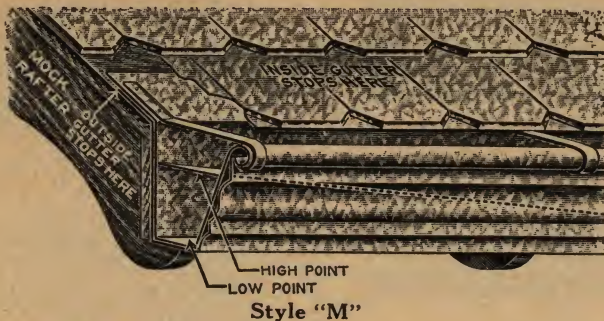
#### List Price per dozen

No. 1 Small Size, for 15" gutter..	\$1.20
No. 2 Large Size, for 20" gutter..	2.20





## Badger Double Box Gutters



Badger Double Box Gutters are made up to order. The outer part of the Double Box Gutter is level; the inside false bottom is pitched to carry the water. When ordering, send plans or sketches showing exact location of downspouts, so that the inside gutter may be pitched properly. Prices quoted when specifications are furnished

Made from Galvanized Steel and Galvanized Toncan Metal.

### List Prices

STYLE M GUTTERS	SIZE (Depth)	3 1/2"	4 1/2"	6"	STYLE M MITRES	SIZE (Depth)	3 1/2"	4 1/2"	6"
	No. 28 Ga.	\$ .26	\$ .32	\$ .42		No. 28 Ga.	\$3.12	\$3.84	\$5.04
List Prices	No. 26 Ga.	.29	.36	.50	List Prices	No. 26 Ga.	3.48	4.32	6.00
Per foot					Each				

STYLE N GUTTERS	SIZE (Depth)	3 1/2"	4 1/2"	6"	STYLE N MITRES	SIZE (Depth)	3 1/2"	4 1/2"	6"
	No. 28 Ga.	\$ .24	\$ .28	\$ .36		No. 28 Ga.	\$2.88	\$3.36	\$4.32
List Prices	No. 26 Ga.	.27	.32	.41	List Prices	No. 26 Ga.	3.24	3.84	4.92
Per Foot					Each				

ENDS.....	List Price Each	No. 28 Ga.....	\$ .30	No. 26 Ga.....	\$ .30
OUTLETS.....	List Price Each	No. 28 Ga.....	\$ .30	No. 26 Ga.....	\$ .30

Also Made in PURE COPPER. Prices on request.

## Badger Galvanized Tubing and Elbows



Galvanized after formation. Lock seamed.

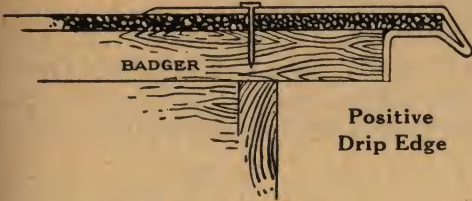
### List Prices

Size	Length	Tubing	Elbows
1 inch	5 foot	\$ .10 foot	\$ .22 each
1 1/4 inch	5 foot	.12 foot	.25 each
1 1/2 inch	10 foot	.13 foot	.25 each





## Badger Galvanized Roof Edge and Eaves Drip



Style E Roof Edge

Positive  
Drip Edge



Style A



Style C

Eaves Drip

Badger Roof Edge and Eaves Drip are made from Tite Coat Galvanized Sheets.

Style E of 3 and 5 inch girth in 5 foot lengths with nail holes punched every 3 inches.

Style A of 3 and Style C of 5 inch girth in 10 foot lengths. Styles A and C can also be furnished in other Girths and Profiles.

Packed 250 and 500 linear feet to crate.

### BADGER ZINC SIDING MOULDINGS

Used with ASBESTOS or PREPARED SIDINGS



No. 1  
Outside Corner

No. 2  
Inside Corner

No. 3  
Trim Moulding

Stock Lengths 12 Ft. - Packed 500 Ft. to Crate.

### GALVANIZED ROOF CAPS



Open stock—Sold by the pound.

### "Badger" Hip Shingles



Galvanized, Plain or Painted Tin

Packed 250 in a box

Stock Sizes

4 in. x 7 in.

4 in. x 9 in.

5 in. x 12 in.



### BADGER FLAT FLASHING SHINGLES

Galvanized, Plain or Painted Tin

Put up in packages of 100 pieces each

Stock Sizes 4 in. x 5 in.

5 in. x 7 in.

7 in. x 10 in.

### Style V Barn Batten Strips Galvanized



Outer edges turn down, preventing rain or storm from driving under the strip. Center bead fits into the crack.

Its capacity for expansion and contraction prevents splitting of the boards.

Furnished in 6, 7, 8, 9, 10 and 12 foot lengths  $1\frac{3}{4}$  inch wide, with nail holes punched every 12 inches. Weight per 1000 feet crated 133 lbs.

List price per thousand linear feet \$20.00





## Badger Plain Ridging and Finials



Plain Ridge Roll—With Nailing Flange



V Angle Ridge Cap—With Nailing Flange



Triangular Ridging—With Nailing Flange

The full girth as furnished by Badger insures full nailing flange. Easily and quickly applied. Insist on Badger for perfect-fitting neat and tight ridges.

All sizes made in 10 - Foot lengths. Shipped nested 250 feet to the bundle or crate.

List Price Per Linear Foot  
Weight per 1000 feet, Bundled.

Made from Galvanized Steel, Galvanized Toncan Metal and Pure Copper.

Girth, Inches Roll, Inches	7 1 1/4	8 1 1/2	10 2	12 2 1/2	14 3
29 Gauge Steel.....	\$ .15 419 lbs.	\$ .17 479 lbs.	\$ .19 600 lbs.	\$ .24 718 lbs.	\$ .30 839 lbs.
28 Gauge Steel.....	.16 456 lbs.	.18 521 lbs.	.20 651 lbs.	.25 781 lbs.	.32 912 lbs.
26 Gauge Steel.....	.21 529 lbs.	.23 604 lbs.	.24 756 lbs.	.31 906 lbs.	.40 1057 lbs.
24 Gauge Steel.....	.30 584 lbs.	.32 667 lbs.	.34 964 lbs.	.40 1156 lbs.	.50 1349 lbs.
16 Oz. Copper.....	.30 584 lbs.	.32 667 lbs.	.36 834 lbs.	.45 1000 lbs.	.63 1167 lbs.

### NO. 915 GABLE FINIAL

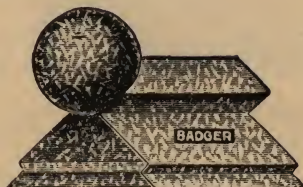
Made from Copper Bearing Terne Plate.  
Galvanized after formed.

Made to fit 1 1/4, 1 1/2 and 2-inch Ridge Roll. Specify size when ordering.  
Length, 10 inches; height, 8 inches.

List Price, per dozen.....\$6.00



### GLOBE RIDGE ROLL FINIALS

No. 5 Globe Finial  
For Plain Ridge RollNo. 7 Globe Finial  
For Triangular Ridging

Made from Copper Bearing Terne Plate. Seamed—Galvanized after formation. No solder used.  
1 1/2 and 2 inch Packed 2 dozen per carton, other sizes—open stock.

List Prices per Dozen

No. 5			No. 7		
Roll	Ball Dia.	Per Doz.	Girth	Ball Diam.	Per Doz.
1 1/4 inch	2 1/2 inch	\$4.00	7 inch	2 1/2 inch	\$4.00
1 1/2 inch	2 1/2 inch	4.00	8 inch	2 1/2 inch	4.00
2 inch	3 1/2 inch	5.00	10 inch	3 1/2 inch	5.00
2 1/2 inch	4 inch	6.00	12 inch	4 inch	6.00





## CONTINUOUS HIP SHINGLES



Shipped 250 feet in a bundle or a crate.

### List prices per linear foot

Made from Galvanized Steel and Galvanized Toncan Metal.

	No. 29	No. 28	Starters No. 29	Each No. 28
5 inch 5 or 10 ft. lengths.....	\$ .05	\$ .06	\$ .07	\$ .08
10 inch 4 ft. lengths.....	.10	.12	.14	.16

## CONTINUOUS ORNAMENTAL RIDGE



No. 9 Gable Finial



No. 11 Hip Finial

Shipped 250 feet in a bundle or a crate.

### List prices per linear foot

Made from Galvanized Steel and Galvanized Toncan Metal.

	No. 29	No. 28	Finials, Each Galvanized after formed
8 inch 10 ft. lengths.....	\$ .08	\$ .09	No. 9 Gable.....\$ .70
			No. 11 Hip..... .70

## ORNAMENTAL RIDGE AND HIP TILE



Showing Ridge Tile Applied

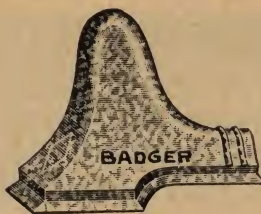
Tile are 14 inches long and lay 12 inches to the weather, are adjustable and no cutting is necessary.



No. 922  
Ridge and Hip Tile



No. 922-A  
Starter for Hip Tile



No. 923  
Hip Finial



No. 924  
Gable Finial

### List Prices Each

Made from Galvanized Steel and Galvanized Toncan Metal. Galvanized after formed.

No. 922. Ridge Tile, covers 12 inches, each.....	\$0.10
No. 922-A. Starters, each.....	.20
No. 923. Hip Finial, each.....	1.20
No. 924. Gable Finial, each.....	1.20

All above also made from Pure Copper.



## Badger Galvanized Roll Valley



Roll Valley is made in 50 and 100 feet rolls with all seams double cross locked unless otherwise ordered. Single Locked and Soldered, when so ordered, at an additional charge.

### List Prices Per Linear Foot

Made from Galvanized Steel and Galvanized Toncan Metal

#### GALVANIZED ROLL VALLEY

Gauge	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"
29	.09	.13	.16	.19	.23	.26	.29	.33	.36	.43	.46	.49
28	.10	.14	.17	.20	.24	.27	.30	.34	.37	.44	.47	.50
26	.12	.16	.19	.22	.26	.30	.33	.37	.41	.48	.52	.55

## Badger Galvanized Formed Valley



Made in 10 foot lengths. Seamless—Each piece uniform and accurate.

### List Price Per Linear Foot

Made from Galvanized Steel, Galvanized Toncan Metal and Pure Copper.

#### FORMED VALLEY

Girth	10"	12"	14"	16"	18"	20"	24"	28"	30"
No. 29 Gauge	\$ .19	\$ .24	\$ .30	\$ .36	\$ .40	\$ .46	\$ .60	\$ .70	\$ .75
No. 28 Gauge	.20	.25	.32	.38	.42	.48	.65	.75	.80
No. 26 Gauge	.24	.31	.40	.46	.50	.58	.70	.80	.90
16 oz. Copper	.44	.50	.70	.85	.95	1.00			





## BADGER TIN ROLL VALLEY



### For Roofing, Gutters and Valleys

Ready to apply without further preparation. Made from all grades of our prime roofing plates, with name and weight of coating stamped on each sheet. No Wasters used.

Widths 10, 14, 20 and 28 inches.

Rolls of 50 feet and 100 feet lengths.

Furnished: Unpainted—Painted one side—Painted two sides.

Specify how wanted when ordering.

Made from the following 20x28 inch Terne Plates.

"Alloy".....	8 lb. coating
"Clarmax" Old Style.....	15 lb. coating
"Badger" Old Style.....	20 lb. coating
"American" Old Style.....	25 lb. coating
"Sexauer" Old Style.....	40 lb. coating

All Valley is furnished double cross locked, unless otherwise ordered.

Single Cross Locked and Soldered when so ordered—at an additional charge.

Unpainted Valley is shipped unless painted is ordered.

## Badger Tin Flashing in Rolls

Ready to Apply without further preparation.

Made from our "Alloy" full weight 8 lb. coating Terne Plate.

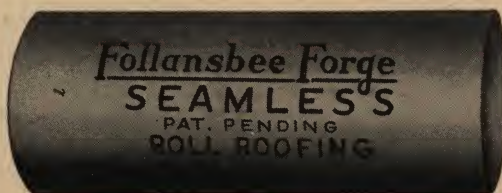
Widths 4, 5, 6, 7 and 8 inches.

Rolls of 50 feet and 100 feet lengths.

Furnished: Unpainted—Painted one side—Painted two sides.

Specify how wanted when ordering.

## "Follansbee Forge" Seamless Roll Roofing



"Follansbee Forge" Best Roofing Copper Bearing 40 lb., has long been accepted as perfection in roofing material.

Previously furnished only in rolls made from sheets 28" in length, this material is now available from stock in 50 lineal foot SEAMLESS rolls.

This NEW SEAMLESS Roll is available in 50 ft. lengths, die stamped every 6 ft. as follows:-

Widths.....	14"	20"	28"	
Grades.....	IC - 8 lb.	IC - 20 lb.	IC - 40 lb.	

Furnished Painted Two Sides, or Plain not painted.



# Warranted Terne Plates, Coke and Charcoal Tin



## Terne Plates — Copper Bearing Base

### For Roofing Products

For the base of Roofing Plates, the best material obtainable is high grade Open Hearth Steel alloyed with Copper. Copper Steel gives increased resistance to rust, and additional service in case the protective coating of the Plate should become damaged. Numerous **actual service tests** in various parts of the country have proved this unequivocally, and the superiority of the Copper Steel alloy is well established. Our Plates are made from this alloy in order that users may be assured that the highest possible standards of **quality, workmanship and materials** are embodied in our Roofing Plates. Each plate full weight, uniform and as represented.

Packed 112 sheets per Box.

	Shipping Weight
"Sexauer's" Old Style, IC 40-lb. Coating, 20x28 inches.....	258
"Sexauer's" Old Style, IX 40-lb. Coating, 20x28 inches.....	314
Follansbee Forge Best Roofing, IC, 40 lb. Coating, 20x28 inches.....	262
"American" Old Style, IC 25-lb. Coating, 20x28 inches.....	243
"Badger" Old Style, IC 20-lb. Coating, 20x28 inches.....	238
"Clarmax" Old Style, IC 15-lb. Coating, 20x28 inches.....	233
"Alloy" IC full weight, 8-lb, Coating, 20x28 inches.....	226

Our 40-lb., 25-lb., 20-lb. and 15-lb. Plates all have the name and coating stamped on each sheet. The Alloy has the name only stenciled on boxes.

## "Yucca" Bright Coke Furnace Tin

Shipping Weight

"Yucca" IC 20x28 in. 112 Sheets per box.....	226 lbs.
"Yucca" IC 20x29 1/2 in. 112 sheets per box.....	238 lbs.
"Yucca" IC 20x32 1/2 in. 112 sheets per box.....	262 lbs.
"Yucca" IX 20x32 1/2 in. 56 sheets per box.....	166 lbs.
"Yucca" IX 20x39 in. 56 sheets per box.....	199 lbs.
"Yucca" IC 24x26 in. 112 sheets per box.....	252 lbs.
"Yucca" IC 24x29 1/2 in. 112 sheets per box.....	286 lbs.
"Yucca" IC 24x32 1/2 in. 56 sheets per box.....	157 lbs.
"Yucca" IX 24x29 1/2 in. 56 Sheets per box.....	180 lbs.
"Yucca" IX 24x32 1/2 in. 56 sheets ber box.....	198 lbs.
"Yucca" IX 24x39 in. 56 sheets per box.....	240 lbs.
"Yucca" IX 24x45 in. 56 sheets per box.....	270 lbs.

## 3-A Bright Charcoal Tin

Shipping Weight

IX 20x28 in. 56 sheets per box.....	151 lbs.
IXX 20x28 in. 56 sheets per box.....	171 lbs.
IXXX 20x28 in. 56 sheets per box.....	191 lbs.
IXXXX 20x28 in. 56 sheets per box.....	211 lbs.

## "Badger" Fire Door Tin—20Lb.

### Underwriters Guarantee and Specifications

Shipping Weight

IC 14x20 in. 112 sheets per box.....	120 lbs.
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# Covering Tables for Terne Plate Roofings

## FLAT SEAM TIN ROOFING

Sheets 14x20 Inches

The following table shows the number of plates or sheets, size 14x20 inches, required to cover a given number of square feet with flat seam tin roofing. A sheet of 14x20 inches with  $\frac{1}{2}$  inch edges measures, when edged or folded, 13x19 inches, or 247 square inches. In the table below all fractional parts of a sheet are counted a full sheet.

Sizes generally used are 14x20, and 20x28.

Number of Sq. Ft.	Sheets Required	Number of Sq. Ft.	Sheets Required	Number of Sq. Ft.	Sheets Required	Number of Sq. Ft.	Sheets Required
100	59	330	193	560	327	780	455
110	65	340	199	570	333	790	461
120	70	350	205	580	339	800	467
130	76	360	210	590	344	810	473
140	82	370	216	600	350	820	479
150	88	380	222	610	356	830	484
160	94	390	228	620	362	840	490
170	100	400	234	630	368	850	496
180	105	410	240	640	374	860	502
190	111	420	245	650	379	870	508
200	117	430	251	660	385	880	514
210	123	440	257	670	391	890	519
220	129	450	263	680	397	900	525
230	135	460	269	690	403	910	531
240	140	470	275	700	409	920	537
250	146	480	280	710	414	930	543
260	152	490	286	720	420	940	549
270	158	500	292	730	426	950	554
280	164	510	298	740	432	960	560
290	170	520	304	750	438	970	566
300	175	530	309	760	444	980	572
310	181	540	315	770	449	990	578
320	187	550	321	...	...	...	...

1000 square feet, 583 sheets.

A box of 112 sheets 14x20 inches will cover approximately 192 square feet.

## STANDING SEAM TIN ROOFING

Sheets 20x28 Inches.

Table showing quantity of 20x28 inch tin required to cover a given number of square feet with standing seam tin roofing. The standing seams and the locks on a steep roof require  $2\frac{3}{4}$  inches off width, and  $\frac{3}{4}$  inch off the length of the sheet; fractional parts are counted as a full sheet. A sheet will cover 475 square inches.

Number of Sq. Ft.	Sheets Required.	Number of Sq. Ft.	Sheets Required.	Number of Sq. Ft.	Sheets Required.	Number of Sq. Ft.	Sheets Required.
100	31	330	100	560	170	780	237
110	34	340	103	570	173	790	240
120	37	350	106	580	176	800	243
130	40	360	109	590	180	810	246
140	43	370	112	600	182	820	249
150	46	380	115	610	185	830	252
160	49	390	118	620	188	840	255
170	52	400	122	630	191	850	258
180	55	410	125	640	194	860	261
190	58	420	128	650	197	870	264
200	61	430	131	660	200	880	267
210	64	440	134	670	203	890	270
220	67	450	137	680	206	900	273
230	70	460	140	690	210	910	276
240	73	470	143	700	212	920	279
250	76	480	147	710	215	930	282
260	79	490	149	720	218	940	285
270	82	500	152	730	221	950	288
280	85	510	155	740	224	960	291
290	88	520	158	750	228	970	294
300	91	530	161	760	231	980	297
310	94	540	164	770	234	990	300
320	97	550	167	...	...	...	...

1000 square feet, 303 sheets.

A full box, 112 sheets 20x28 inches, will cover approximately 370 square feet.

Our Warranted Terne Plates Are All Primes—No Wasters.



# "BADGER" WIRE NAILS

LIST PRICES EFFECTIVE AUG. 1, 1939

In La Crosse Stock—Photos Actual Size

## COMMON BRIGHT NAILS

Flat Head - Diamond Point

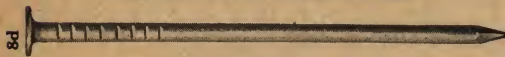


Size	Length and Gauge	Extra Over Base Price	Diam. of Head	Approx. No. to Lb.
3d	1 1/4" No. 14	\$1.60	6 ga.	568
4d	1 1/2" " 12 1/2	.95	4 ga.	316
6d	2" " 11 1/2	.70	2 1/2 ga.	181
7d	2 1/4" " 11 1/2	.60	2 1/2 ga.	161
8d	2 1/2" " 10 1/4	.50	1 1/2 ga.	106
9d	2 3/4" " 10 1/4	.45	1 1/2 ga.	96
10d	3" " 9	.40	0 1/2 ga.	69
12d	3 1/4" " 9	.40	0 ga.	63
16d	3 1/2" " 8	.35	1 1/8"	49
20d	4 1/4" " 6	.35	3/8"	31
30d	4 1/2" " 5	.35	1/8"	24
40d	5 1/2" " 4	.35	1/8"	18
50d	5 1/2" " 3	.35	1/8"	14
60d	6 1/2" " 2	.35	9/16"	11

Galvanized Common Nails in 3d, 4d, 6d, 8d and 10d with regular head also 3d with 1/4" large head.

## SMOOTH BRIGHT BOX NAILS

Large Flat Head - Diamond Point



Size	Length and Gauge	Extra Over Base Price	Approx. No. to Lb.
4d	1 1/2" No. 14	\$1.25	473
5d	1 3/4" No. 14	1.15	406
6d	2" No. 12 1/2	.95	236
7d	2 1/4" No. 12 1/2	.85	210
8d	2 1/2" No. 11 1/2	.70	145
10d	3" No. 10 1/2	.60	94

Galvanized Smooth Box Nails in 5d, 6d, 7d and 8d.

## BRIGHT CASING NAILS

Deep Countersunk Head - Diamond Point



Size	Length and Gauge	Extra Over Base Price	Degree of Countersunk	Diam. Head Gauge	Approx. No. to Lb.
4d	1 1/2" No. 14	\$1.30	32	11	473
6d	2" No. 12 1/2	.85	32	9 1/2	236
8d	2 1/2" No. 11 1/2	.60	32	8 1/2	145
10d	3" No. 10 1/2	.50	32	7 1/2	94

## BRIGHT FINISHING NAILS

Brad Head - Diamond Point



Size	Length and Gauge	Extra Over Base Price	Diam. Head Gauge	Approx. No. to Lb.
3d	1 1/2" No. 15 1/2	\$1.95	12 1/2	807
4d	1 3/4" No. 15	1.65	12	584
5d	1 3/4" No. 15	1.55	12	500
6d	2" No. 13	.95	10	309
8d	2 1/2" No. 12 1/2	.65	9 1/2	189
10d	3" No. 11 1/2	.55	8 1/2	121

For Extras on Galvanized Nails see current price list.  
Other Styles and Sizes of Nails shipped from Mill.

## GALVANIZED LARGE FLAT HEAD BARBED ROOFING NAILS

Diamond Point-

For other styles of Roofing Nails see page 34.



1/8" Head, No. 11 Gauge						
Length.....	3/8"	1"	1 1/4"	1 1/2"	1 3/4"	2"
Approx. No. to lb.	250	234	195	162	148	134
Extra over Base..	\$1.75	\$1.70	\$1.55	\$1.45	\$1.40	\$1.35

3/8" Head No. 12 Gauge						
Approx. No. to lb.	261	225	210	182	.....	.....
Extra over Base..	\$3.05	\$2.90	\$2.80	\$2.65	.....	.....

## GALVANIZED SHINGLE NAILS FLAT HEAD-DIAMOND POINT



Size	Length and Gauge	Extra Over Base Price	Diam. Head In.	Approx. No. to Lb.
3d	1 1/4" No. 13	\$1.35	7/8"	429

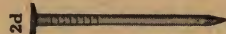
## SPECIAL BLUED PLASTER BOARD NAILS

Large Flat Head - Diamond Point



Length	Gauge	Extra Over Base Price	Diam. Head	Approx. No. to Lb.
1 1/2"	No. 13	\$2.30	5/16"	432
1 3/4"	No. 13	2.05	5/16"	357
1 1/2"	No. 13	2.00	5/16"	282
1 3/4"	No. 13	1.95	5/16"	207

## BRIGHT FINE NAILS FLAT HEAD- DIAMOND POINT



Size	Length and Gauge	Extra Over Base Price	Approx. No. to Lb.
3d	1 1/2" No. 15	\$2.10	778

Galvanized Fine Nails also in 3D.

## STERILIZED BLUED LATH NAILS FLAT HEAD-DIAMOND POINT



Size	Length	Gauge	Extra Over Base Price	Diam. Head	Approx. No. to Lb.
3d	1 1/8"	No. 15	\$2.45	6 ga.	788

## CEMENT COATED STANDARDS

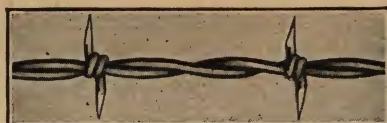
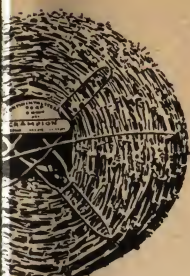
Sometimes referred to as "Coolers"  
Flat Head - Diamond Point



Size	Length	Gauge	Extra Over Base Price	Diam. Head Gauge	Approx. No. to Lb.
4d	1 3/8"	No. 14	\$1.50	4 1/2	488
5d	1 3/8"	No. 13 1/2	1.20	4	364
6d	1 3/8"	No. 13	1.10	3	275
7d	2" No. 12 1/2	.95	2	212	
8d	2 3/8"	No. 11 1/2	.75	1	142
10d	2 3/8"	No. 11	.65	0	104



# Barbed Wire



This heavy weight Barb Wire is popular for all general hog and cattle purposes. Furnished in 2 Point, round barbs, 80 rod reels. Main strands are 12½ gauge wire. Barbs 14 gauge wire wrapped twice around one of main strands. Hog barbs are 3 inches apart. Cattle barbs are 5 inches apart.

Other styles and weights of Barbed Wire shipped from Mill.

## Polished and Galvanized Fence Staples

Length	1 1/8"	1 1/4"	1 1/2"	1 3/4"
Approx. No. to Lb. No. 9 Ga.	96	87	72	65

Galvanized Fence Staples in 1 1/4 inch and 1 1/2 inch.

3/4x14 Ga.



## Galvanized Poultry Netting Staples

Length	Approx. No. to lb. 14 Ga.
3/4"	480

## Galvanized Metal Lath Staples

Length	Approx. No. to lb. 14 Ga.
3/4"	480

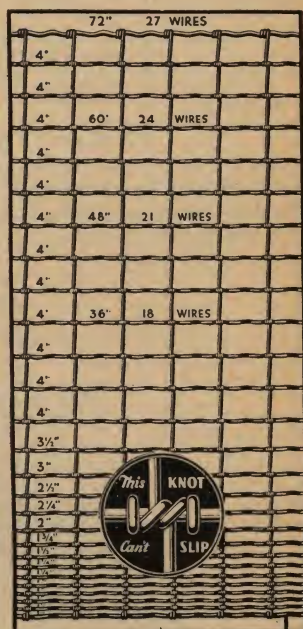


## FARM and POULTRY FENCE

Made from full gauge copper bearing steel wire with a heavy zinc coating.

Actual size of Wire

No. 12½ Filler Farm	Top Wire No. 10	●	=====
	Bottom Wire No. 10	●	=====
	Line Wire No. 12½	●	=====
	Stay Wire No. 12½	●	=====
No. 15½ Filler Chick	Top Wire No. 12½	●	=====
	Bottom Wire No. 12½	●	=====
	Line Wire No. 15½	●	=====
	Stay Wire No. 15½	●	=====



## SPECIFICATION

Chick Proof

Style Number	No. of Line Wires	Height in Inches	Spacing of Stay Wires	Top Wire	Bottom Wire	Filler	Approx. Wgt. Per Rod Lbs.
939-6-12½	9	39	6 in.	10	10	12½	8.7
939-12-12½	9	39	12 in.	10	10	12½	6.7
832-6-12½	8	32	6 in.	10	10	12½	7.7
832-12-12½	8	32	12 in.	10	10	12½	5.9
726-6-12½	7	26	6 in.	10	10	12½	6.7
726-12-12½	7	26	12 in.	10	10	12½	5.2
2148-6-CP15½	21	48	6 in.	12½	12½	15½	8.7

Other styles and weights of Fence shipped from Mill.

price and is distributors uniform in its

ashing, etc.

d for lining

is wanted.

ets

Extra for size

.03 lb.

.03 lb.

furnished

Conductors these items

Extra for size  
\$.60  
.65  
None  
.40  
.40

7 to Work.

Weight of Sheet  
13.5 lbs.  
8.1 lbs.  
14.1 lbs.  
16.1 lbs.



## Plain Smooth Wire

Black and Galvanized—100 pound Bundles

Data and Extras for size over base price

Gauge	$\frac{1}{4}$ "	$\frac{3}{16}$ "	No. 8	No. 9	No. 10	No. 12	No. 14	No. 15
Diameter in Decimal								
Fractions of an Inch	.2500	.1875	.1620	.1483	.1350	.1055	.0800	.0720
Weight in Pounds per Foot	.1667	.09377	.07000	.05866	.04861	.02969	.01707	.01383
Number of Feet per Pound	5.999	10.66	14.29	17.05	20.57	33.69	58.58	72.32
Black				Base		\$1.15	\$3.35	
Galvanized	\$.25	Base	Base	Base	\$.05	\$.20	\$.55	\$.85

## Coppered Market Wire

In Bundles of 100 pounds

Gauges in Stock

No. 10

No. 12

No. 14

## Stove Pipe Wire

Put up in 8" diameter 12 lb. Stones—paper wrapped.

Gauges in Stock

No. 18 Black and Galvanized

No. 19 Black and Galvanized

Also packed in boxes of 12 only 50 ft. coils No. 19 Black Wire.

## Brass Wire Strainer Cloth



In Rolls 12 inches wide, 60 inches long, containing 5 square feet.

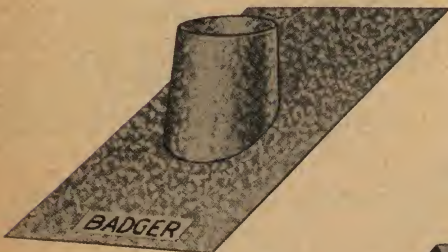
Approximate weight per roll 1 lb.

Stock Sizes

Mesh 40 50 60 70 80

We do not cut rolls.

## Rain Proofs

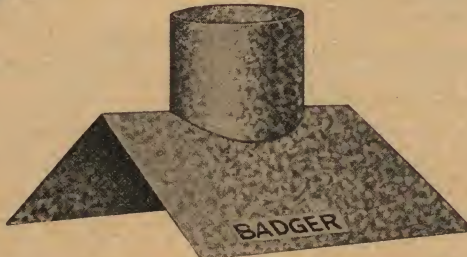


No. 1—For Side Roof— $\frac{1}{4}$  Pitch

Pipe tapers so as to allow a tight connection at either top or bottom.

Both Side and Peak Rain Proofs can be built to other pitches at extra cost.

Made of Galvanized Steel  
6 inch Flue



No. 2—For Peak Roof -  $\frac{1}{2}$  Pitch



No. 3

Caps fit either side or peak.



# "Badger" Pure ANACONDA Copper Sheets



For countless uses, copper is the preferred metal. It is rustproof, workable, moderate in price and is accepted as evidence of quality, durability and the most economical service everywhere. We are distributors for Anaconda Copper because it is the best known, the most widely used, and is constantly uniform in its purity, gauge and temper.

Cold Rolled Copper Sheets are used for fabricating Gutters, Conductor Pipes, Roofing, Flashing, etc. They are strong, tough and durable.

Hot Rolled Copper Sheets are soft and more easily formed than Cold Rolled Sheets. Used for lining Gutters and other intricate forming work where the copper is reinforced.

Cold Rolled Copper Sheets Tinned on one side are used on special work where a bright finish is wanted.

Following sizes are carried in LaCrosse Stock:-

## Cold Rolled Sheet Copper

Weight and Size in inches	Weight of sheet	Extra for size	Extra for Cold Rolled
16 oz. (16 oz. per sq. ft.)			
24x120	20.00 lbs.	\$.03½ lb.	\$.03 lb.
28x96	18.67 lbs.	.03 lb.	.03 lb.
30x96	20.00 lbs.	.03 lb.	.03 lb.
30x120	25.00 lbs.	.03½ lb.	.03 lb.
36x96	24.00 lbs.	.03 lb.	.03 lb.
20 oz. (20 oz. per sq. ft.)			
30x96	25.00 lbs.	.02 lb.	.03 lb.
36x96	30.00 lbs.	.02 lb.	.03 lb.

## Hot Rolled Soft Copper Sheets

Weight and size in inches	Weight of sheet	Extra for size
16 oz. (16 oz. per sq. ft.)		
30x96	20.00 lbs.	.03 lb.
36x96	24.00 lbs.	.03 lb.

Other sizes and weights can also be furnished promptly.

## Cold Rolled Copper Tinned on one side

Wt. and size in Inches	Wt. of sheet	Extra for size	Extra for Cold Rolled	Extra for Tinning
16 oz. (16 oz. per sq. ft.)				
30x96	20.00 lbs.	\$.03 lb.	\$.03½ lb.	\$.09 sq. ft.
36x96	24.00 lbs.	.03 lb.	.03½ lb.	.09 sq. ft.

We also have in stock Copper Gutters, Conductors and Accessories - refer to illustrations of these items in this catalog for list prices, etc.



## Badger M&H ROLLED ZINC Zinc Sheets

Following sizes carried in La Crosse Stock

Zinc No.	Sheet Size inches	Lbs. per sq. ft.	Thickness in inches	Weight of sheet	Extra for size
9	30x50	.67	.018	7.0 lbs.	\$.60
9	30x96	.67	.018	13.5 lbs.	.65
9	36x84	.67	.018	14.1 lbs.	None
9	36x96	.67	.018	16.1 lbs.	.40
9	48x96	.67	.018	21.5 lbs.	.40

## Badger Nickel Zinc

Mirror Finish—Pure Nickel Surface—Non-Rusting—Will Not Peel—Easy to Work.

Following sizes carried in La Crosse Stock.

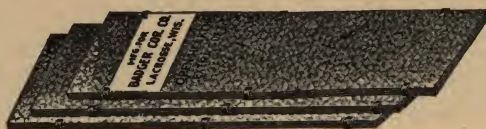
Zinc No.	Sheet Size Inches	Lbs. per Sq. Ft.	Thickness In Inches	Weight of Sheet
9	30x96	.67	.018	13.5 lbs.
9	32x54	.67	.018	8.1 lbs.
9	36x84	.67	.018	14.1 lbs.
9	36x96	.67	.018	16.1 lbs.

Other sizes and weights can also be furnished promptly.





## Badger Galvanized Steel Sheets



"BADGER" Galvanized Open Hearth Sheets are extra soft, easily workable and true to gauge, evenly and toughly coated with prime spelter, guaranteed to seam either way and to stand any ordinary working test.

"Badger" Galvanized Open Hearth Sheets have earned the good will of the trade by reason of their dependable high quality and strict uniformity, and no expense is spared to maintain this standard of excellence. All sheets packed securely for shipment with strong bundling bands.

Look for the "Badger" Trade Mark on each Bundle.

Congressional law permits a variation of  $2\frac{1}{2}$  per cent above or below Standard in the weight of sheets, No. 17 Gauge and lighter, and a variation of 5 per cent in 16 Gauge and heavier.

Following sizes carried in La Crosse Stock.

U. S. Std. Ga. and size in inches	Weight of Sheet	No. of Sheets	Weight of Bundle	U. S. Std. Ga. and size in inches	Weight of Sheet	No. of Sheets	Weight of Bundle	U. S. Std. Ga. and size in inches	Weight of Sheet	No. of Sheets	Weight of Bundle
GALVANIZED				GALVANIZED				GALVANIZED			
No. 16 (2.656 lbs. per sq. ft.)				No. 24 (1.156 lbs. per sq. ft.)				No. 28 (.7812 lbs. per sq. ft.)			
24x96	42.50	4	170	24x96	18.50	8	148	26 $\frac{3}{4}$ x120	17.41	9	157
26x96	46.03	3	138	24x120	23.12	7	162	26 $\frac{3}{4}$ x132	19.15	8	153
26x120	57.53	3	173	26x84	17.53	8	140	26 $\frac{3}{4}$ x144	20.89	7	146
28x96	49.57	3	149	28x96	21.58	7	151	28x60	9.11	16	146
30x96	53.12	3	159	28x120	26.98	6	162	28x72	10.94	14	153
36x96	63.75	2	127	30x96	23.12	7	162	28x84	12.76	12	153
No. 18 (2.156 lbs. per sq. ft.)				30x120	28.91	5	145	28x96	14.58	10	146
24x96	34.50	4	138	32x96	24.53	7	172	28x108	16.40	9	148
24x120	43.12	3	129	36x96	27.75	6	166	28x120	18.23	8	146
28x96	40.24	4	161	36x120	34.69	5	173	28x132	20.06	7	140
30x96	43.12	4	172	38x128	39.04	4	156	28x144	21.88	7	153
30x120	53.91	3	162	42x96	32.38	5	162	30x96	15.62	10	156
36x96	51.75	3	155	48x96	37.00	4	148	30x120	19.53	8	156
36x120	64.69	2	129	48x120	46.24	3	139	32x96	16.66	10	167
48x96	69.00	2	138	No. 26 (.9062 lbs. per sq. ft.)				32x120	20.83	8	167
48x120	86.24	2	172	24x96	14.50	10	145	34x96	17.70	9	162
No. 20 (1.656 lbs. per sq. ft.)				24x120	18.12	8	145	34x120	22.13	7	161
24x96	26.50	6	159	26x96	15.71	10	157	36x96	18.75	8	150
24x120	33.12	5	166	26 $\frac{3}{4}$ x72	12.12	12	145	36x120	23.44	7	164
28x77	24.79	6	149	26 $\frac{3}{4}$ x84	14.14	10	141	No. 29 (.7187 lbs. per sq. ft.)			
28x84	27.05	5	135	26 $\frac{3}{4}$ x96	16.16	9	145	24x120	14.37	10	144
28x89	28.66	5	143	26 $\frac{3}{4}$ x108	18.18	8	145	26 $\frac{3}{4}$ x72	9.61	15	144
28x96	30.91	5	155	26 $\frac{3}{4}$ x120	20.20	7	141	26 $\frac{3}{4}$ x84	11.21	13	146
28x101	32.52	5	163	26 $\frac{3}{4}$ x144	24.24	6	145	26 $\frac{3}{4}$ x96	12.82	12	154
28x108	34.65	4	139	28x72	12.69	12	152	26 $\frac{3}{4}$ x108	14.42	10	144
28x113	36.39	4	146	28x84	14.80	10	148	26 $\frac{3}{4}$ x120	16.02	10	160
28x120	38.64	4	155	28x96	16.91	9	152	26 $\frac{3}{4}$ x132	17.62	9	159
28x132	42.50	3	127	28x108	18.90	8	151	26 $\frac{3}{4}$ x144	19.22	8	154
28x137	44.11	3	132	28x120	21.14	7	148	28x60	8.38	18	151
28x140	45.08	3	136	28x132	23.26	7	163	28x72	10.06	15	151
28x144	46.37	3	139	28x144	25.37	6	152	28x84	11.74	13	153
30x72	24.84	6	149	30x96	18.12	8	145	28x96	13.41	11	148
30x84	28.98	5	145	30x120	22.66	7	159	28x108	15.08	10	151
30x96	33.12	5	166	32x96	19.20	8	154	28x120	16.77	9	151
30x120	41.41	4	166	34x78 $\frac{1}{2}$	16.80	9	151	28x132	18.44	8	148
36x96	39.75	4	159	36x77	17.45	9	157	28x144	20.12	7	141
36x120	49.69	3	149	36x96	21.75	7	152	30x96	14.37	10	144
42x96	46.37	3	139	36x120	27.19	6	163	30x120	17.97	9	162
42x120	57.96	3	174	48x96	29.00	5	145	No. 30 (.6562 lbs. per sq. ft.)			
48x96	52.99	3	159	48x120	36.24	4	145	24x96	10.50	15	157
48x120	66.24	2	132	No. 27 (.8437 lbs. per sq. ft.)				24x120	13.12	11	144
No. 22 (1.406 lbs. per sq. ft.)				24x120	16.87	9	152	28x60	7.66	18	138
24x96	22.50	7	157	28x120	19.68	8	157	28x96	12.25	12	147
28x96	26.24	6	157	30x96	16.87	9	152	30x96	13.12	11	144
30x96	28.12	5	141	No. 28 (.7812 lbs. per sq. ft.)				30x120	16.41	9	148
36x96	33.75	5	169	24x96	12.50	12	150	32x96	13.87	11	153
36x120	42.19	4	169	24x120	15.62	10	156	36x96	15.75	10	157
42x96	39.37	4	137	26 $\frac{3}{4}$ x72	10.45	14	146	36x120	19.69	8	158
42x120	49.21	3	148	26 $\frac{3}{4}$ x84	12.19	12	146				
				26 $\frac{3}{4}$ x96	13.93	11	153				
				62 $\frac{3}{4}$ x108	15.67	10	157				

Armco 18-8  
Stainless Steel

The unusual physical properties and exceptional corrosion and heat-resisting qualities of this grade of Armco Stainless Steel makes it ideally suited for a wide range of industrial, domestic, commercial and architectural applications.

Exceptionally tough and possessing great ductility it can be severely drawn, spun, rolled, machined or otherwise worked in the cold state. These characteristics induce good fabricating qualities and enable it to be formed into many intricate shapes.

Armco 18-8 stainless will retain an untarnished silvery surface under most atmospheric conditions. In any form it consistently withstands the corrosive effects of many different solutions encountered in the textile, paper, chemical, process and food handling industries.

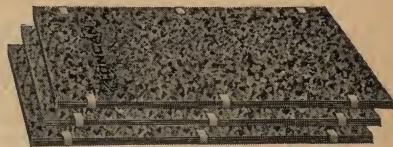
Carried in La Crosse Stock in Polished One Side - No. 4 Finish-Annealed.

For sizes and price information see current dealers price list.





## Galvanized Toncan Copper Molybdenum Iron Sheets



Galvanized Toncan Copper Molybdenum Iron Sheets embody all the latest and best developments of modern science for making sheet iron more lasting, more rust resisting, more satisfactory in every way. Toncan sheets are extra soft, ductile and easily workable. They are coated with prime western spelter, every sheet being thoroughly inspected after galvanizing.

All Sheets packed securely for shipment with strong bundling bands.  
Following Sizes carried in La Crosse Stock.

U. S. GA.	WT. SHT.	NO. SHT. BDLE	WT. BDLE	U. S. GA.	WT. SHT.	NO. SHT. BDLE	WT. BDLE	U. S. GA.	WT. SHT.	NO. SHT. BDLE	WT. BDLE	U. S. GA.	WT. SHT.	NO. SHT. BDLE	WT. BDLE
No. 16 (2.656 lbs. per sq. ft.)				36x96	39.75	4	159	30x96	23.12	7	162	36x96	21.75	7	152
30x96	53.12	3	159	No. 22 (1.406 lbs. per sq. ft.)				30x120	28.91	5	145	36x120	27.19	6	163
No. 18 (2.156 lbs. per sq. ft.)				28x96	26.24	6	157	36x96	27.75	6	166	No. 28 (.7812 lbs. per sq. ft.)			
30x96	43.12	4	172	30x96	28.12	5	141	No. 26 (.9062 lbs. per sq. ft.)				26x120	17.41	9	157
No. 20 (1.656 lbs. per sq. ft.)				36x96	33.75	5	169	24x96	14.50	10	145	28x96	14.58	10	146
24x96	26.50	6	159	No. 24 (1.156 lbs. per sq. ft.)				28x96	16.91	9	152	28x120	18.23	8	146
28x96	30.91	5	155	24x96	18.50	8	148	28x120	21.14	7	148	30x96	15.62	10	156
30x96	33.12	5	166	28x96	21.58	7	151	30x96	18.12	8	145	30x120	19.53	8	156
				28x120	26.98	6	162	30x120	22.66	7	159	36x96	18.75	8	150



## Galvannealed Steel Sheets

Galvannealed Steel Sheets are used for Furnace Pipe, Elbows and any severe forming job where ordinary Galvanized Coating will flake.

All sheets packed securely for shipment with strong bundling bands.

Following sizes carried in La Crosse stock.

U. S. GA.	WT. SHT.	NO. SHT. BDLE	WT. BDLE	U. S. GA.	WT. SHT.	NO. SHT. BDLE	WT. BDLE
No. 22 (1.406 lbs. per sq. ft.)				30x96	23.12	7	162
30x96	28.12	5	141	36x96	27.75	6	166
32x96	29.87	5	149	No. 26 (.9062 lbs. per sq. ft.)			
No. 24 (1.156 lbs. per sq. ft.)				30x96	18.12	8	145
24x96	18.50	8	148	36x96	21.75	7	152
26x84	17.53	8	140	No. 28 (.7812 lbs. per sq. ft.)			
28x96	21.58	7	151	30x96	15.62	10	156



## Badger Black Steel and Stove Pipe Uniform Blue Sheets

Badger Black Steel Sheets are made from open hearth steel. They are Hot-rolled and annealed. "Badger" Stove Pipe Blue Sheets are uniform in color and have the finish and working quality that meet the demand for high grade stove and stove pipe work.

All sheets packed securely for shipment with strong bundling bands.  
Following sizes carried in La Crosse Stock.

U. S. GA.	WT. SHT.	NO. SHT. BDLE	WT. BDLE	U. S. GA.	WT. SHT.	NO. SHT. BDLE	WT. BDLE	U. S. GA.	WT. SHT.	NO. SHT. BDLE	WT. BDLE
<b>Black Steel Sheets</b>				<b>No. 24 (1.00 lbs. per sq. ft.)</b>				<b>No. 27 (.6875 lbs. per sq. ft.)</b>			
No. 14 (3.125 lbs. per sq. ft.)				24x96	16.	9	144	24x101	11.57	12	139
30x96	62.5	2	125	30x96	20.	7	140	No. 28 (.625 lbs. per sq. ft.)			
36x96	75.	2	150	36x96	24.	6	144	24x101	10.52	14	147
No. 16 (2.50 lbs. per sq. ft.)				No. 26 (.75 lbs. per sq. ft.)				<b>Stove Pipe Blue-Oiled</b>			
30x96	50.	3	150	30x96	15.	10	150	No. 26 (.75 lbs. per sq. ft.)			
36x96	60.	2	120	No. 28 (.625 lbs. per sq. ft.)				24x101	12.63	12	151
No. 18 (2.00 lbs. per sq. ft.)				30x96	12.5	12	150	No. 27 (.6875 lbs. per sq. ft.)			
30x96	40.	4	160	36x96	15.	10	150	24x101	11.57	12	139
36x96	48.	3	144	No. 30 (.5 Lbs. per sq. ft.)				No. 28 (.625 lbs. per sq. ft.)			
No. 20 (1.50 lbs. per sq. ft.)				28x96	9.33	16	149	24x101	10.52	14	147
30x96	30.	5	150	<b>Stove Pipe Blue-Dry</b>				<b>Black Sheets-Painted Red</b>			
36x96	36.	4	144	No. 26 (.75 lbs. per sq. ft.)				No. 28 (.625 lbs. per sq. ft.)			
No. 22 (1.25 lbs. per sq. ft.)				24x101	12.63	12	151	8x60	7.29	20	146
30x96	25.	6	150								

Congressional law permits a variation of 2½ per cent above or below Standard in the weight of sheets, No. 17 Gauge and lighter, and a variation of 5 per cent in 16 Gauge and heavier.





## General Information on Steel Roofing

### Quality of Steel Roofing to Use

Most buyers of Galvanized Roofing know that the thickness of the sheet is called its gauge. The larger the number of gauge, the thinner the sheet, and the less it weighs per square foot. For instance, a No. 26 gauge Galvanized Sheet is about 3/160 of an inch thick and weighs 9/10 of a pound per square foot, while a No. 28 gauge Galvanized Sheet is 1/64 of an inch thick and weighs 3/4 of a pound per square foot. Most styles of 26 gauge Galvanized Roofing weigh approximately 14 pounds per 100 square feet more than the 28 Gauge.

The Sheet Steel Trade Extension Committee in their Hand Book "How to Lay Steel Roofing" recommends that under no circumstances should galvanized sheets lighter than No. 28 gauge be used for roofing purposes in the most favorable climates. In damp climates No. 26 gauge or heavier is recommended. This same recommendation with regard to No. 28 gauge roofing is made by the Bureau of Standards, United States Department of Commerce through its Division of Simplified Practice.

Light gauges are found to be unsatisfactory for roofing purposes. In other words, the material is too thin to provide the long life desired in a roof, particularly where climate is severe. When very thin material is used for roofing in severe climates, it frequently reflects discredit to sheet steel roofing in general.

The largest part of the cost of any roof is the cost of labor, whether you do the work yourself or hire it done. This labor cost is practically the same whether you use No. 28 gauge or No. 26 gauge steel. The few extra dollars required for the thicker and heavier material will be returned to you many times over a trouble-free service.

### General Directions for Applying Steel Roofing

To remove the possibility of heavy winds driving rain and snow under the side laps of a sheet steel roof, it is advisable to start applying the sheets at the end of the roof farthest removed from the origin of prevailing storms. For instance, if the ridge of the roof runs north and south and prevailing storms are from a northerly direction, start applying the sheets at the southern gable end of the roof.

The corrugated styles of galvanized steel roofing are usually applied one course at a time, from gable end to gable end and always starting at the eave rather than at the ridge. In some sections of the United States, however, it has been the local custom to apply corrugated sheets one row at a time, from the eave to the ridge. This local custom has its advantages in case of an unexpected rain, as well as some disadvantages. The roofer must decide which method shall be used, since it is more a matter of personal taste. Either method will result in a well-finished job.

Other types of formed galvanized steel roofing, namely, TYL-LYKE, V-Crimp, Pressed Standing Seam as well as Roll Roofing are always laid one row at a time up the roof from the eave to the ridge.

Since the exposed covering width of the various types of formed steel roofing is 2 feet, it is often necessary to project the eave length of a roof to the "next higher even foot," so that the number of sheets can be figured more easily. For example, if the true eave measurement (Length) of the eave from one gable end to the other, were 31 feet, 4 ins., this should be projected to an eave length of 32 feet, so that upon dividing the eave length by 2 (width of sheets in feet) the result is an even sixteen sheets. Fifteen sheets would not be enough to reach from one gable end to the other, and since the sheets are all made in 2-foot widths, it is necessary to figure on the basis of a 32-foot eave length.

In applying all types of formed steel roofing sheets except Corrugated, good construction demands that the steel project sufficiently over both the gable ends and the eaves so that it can be bent down over the wood deck. With Corrugated roofing the gable end roof edges are bent down over the edge of the wood deck, but the eave roof edges are permitted to overhang.

Good construction also demands that the edges of sheets overlap one another so that no leakage occurs. These laps are referred to as "side laps" and "end laps"; the proper use of either of these expressions depending upon whether it is the side of the sheet that is being lapped or the end of the sheet.

It is because of the side laps that, for illustration, 1 1/4-inch corrugated sheets which measure 26 inches wide from edge to edge, have a net width exposed to the weather of only 24 inches. The remaining 2 inches of width is taken up with the side laps. Also when determining the number of sheets needed from the eave to the ridge, it is necessary to figure the amount of each sheet devoted to end lap.

When applying Corrugated steel roofing, the nails are driven down through the top of the corrugations. Nailing of Tyl-Lyke Roofing should be straight down thru the broad surface of the V's which provide a neat and rugged installation. In V-Crimp roofing it is necessary to order V-shaped sticks which fit in under the crimps. The nails are driven through the steel and V-shaped sticks into the roof deck. With Pressed Standing Seam roofing there are no nails driven through the roofing sheet itself, but side cleats and end cleats of steel are used to fasten the sheets to the roof deck. With Roll roofing, only the side cleats are needed because the ends of the sheets are fastened together at the factory with a double lock seam.

It is impossible to illustrate and give directions in this Catalog for the proper application of every Style of Galvanized Roofing we manufacture, but the Hand Book of the Sheet Trade Extension Committee covers this fully—send for a copy—it is free.

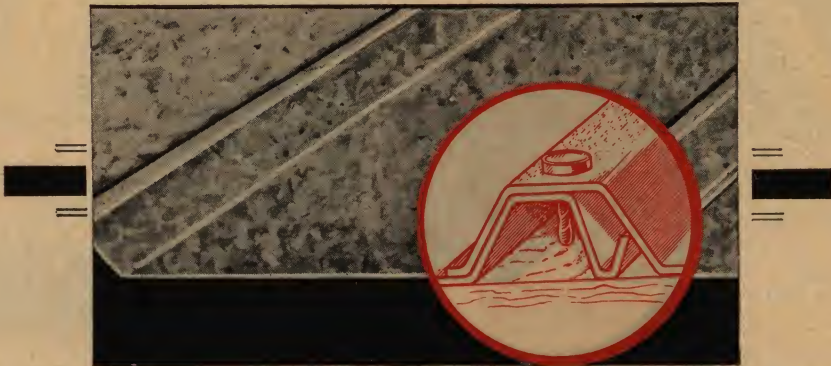




# "Tyl-Lyke"

## GALVANIZED STEEL ROOFING

Modern in Appearance — Easy to Lay (see following pages)



Full width 24 inches. Covering width 24 inches.

Full length and width of sheets charged for.

Stock sizes .....	5	6	7	8	9	10	11	12 ft. lg.
Selling meas't. ....	10	12	14	16	18	20	22	24 sq. ft.
Gauges in stock					28			
Wt. per Sq. Galvanized					86 lbs.			

Above is subject to a variation of 2½ per cent either way. Tyl-Lyke Roofing Sheets have flat top V-Crimps that make the driving of nails easy and greatly simplifies the installation. The patented non-syphoning drain channel breaks all capillary attraction (syphoning or seepage) thus assuring a positive leak proof installation. These sheets are sold on a 24-inch width basis, as compared to Corrugated, which is sold on a 26 inch width basis. Yet when installed Tyl-Lyke Sheets will actually cover 24 inches in width, which is more roofing area per square than covered by Standard Corrugated Sheets. Due to the heavy coating of zinc, these sheets are suitably protected against atmospheric corrosion and rust and will give many years of unimpaired and satisfactory service.



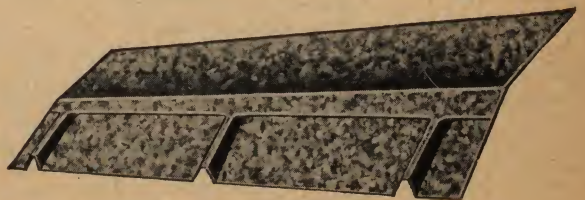
### TYL-LYKE Ridge Roll

Made in two pieces, fully adjustable. Furnished in 28 gauge, 12 inch girth, and 26 inch length, with a heavy even galvanized coating.

### TYL-LYKE Gambrel Joint

Furnished in one size only; 28 gauge, 10 inch girth, and 26 inch length. Width of the flap apron is 4 inches; protected against rust by a heavy coating of zinc.

Can be used as End Wall Flashing by reversing bend.



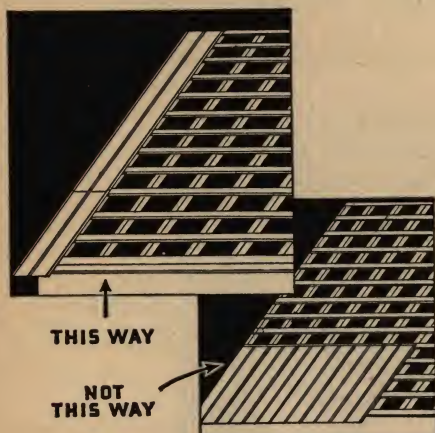


## 9 HELPFUL HINTS FOR LAYING

# "Tyl-Lyke"

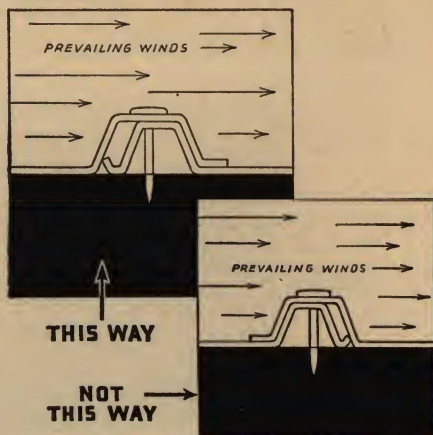
To Secure Weather-Tight Application of This Superior Galvanized Steel Roofing!

### 1 Always Lay Tyl-Lyke From Eaves To Ridge



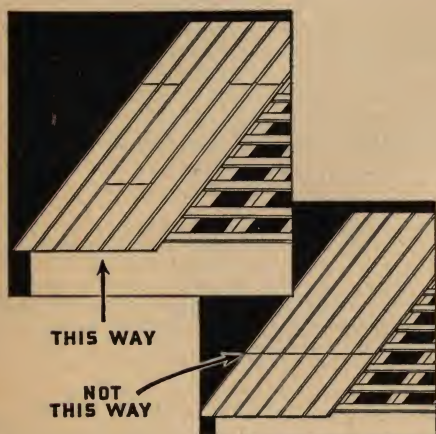
To lap properly, Tyl-Lyke sheets must be applied in courses from lower edge of roof to comb. The drain channel on one edge of each sheet makes it impossible to lay in courses from side to side. It is bad practice to lay any style of sheet in courses from side to side. Sheets do not lock as firmly at the laps. It is best to stagger sheets as shown in Fig. 3.

### 2 Lay Open Side of Lap Away From Direction of Prevailing Wind



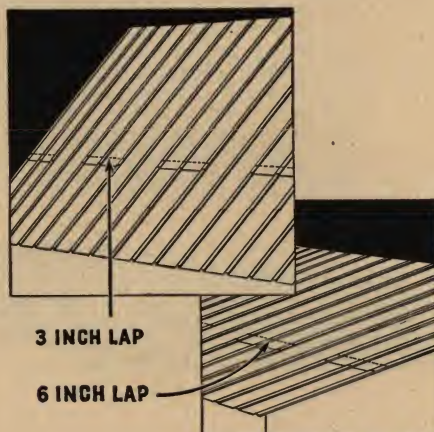
Begin laying Tyl-Lyke on the side of the roof farthest away from the direction of prevailing winds and rainstorms. Laps should face as shown in the top picture . . . so the wind will blow over and not into or under. If this simple suggestion is followed, heavy winds will have less chance to get under sheets.

### 3 Always Break or Stagger End Laps



To lock the sheets together into a more rigid unit the ends of sheets should be broken or staggered on the roof as illustrated in the top picture. Sheets should be purchased in lengths to permit this. If you already have sheets of even length (providing they are long enough), cut one sheet of every second course in half and lay the pieces at each end of the course.

### 4 The Flatter The Roof Pitch The Greater The End Flap

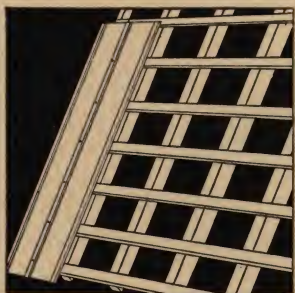


Tyl-Lyke sheets on steep slope roofs may lap as little as 3 inches. They should never lap less than 3 inches. On flat slope roofs, the ends of the sheets should lap about 6 inches and may lap more if the length of the sheets make it convenient. Steel sheets turn water remarkably well on most any slope roof but they work best on roofs of  $\frac{1}{4}$  to  $\frac{1}{3}$  pitch—3 to 4 inches fall in one horizontal foot.



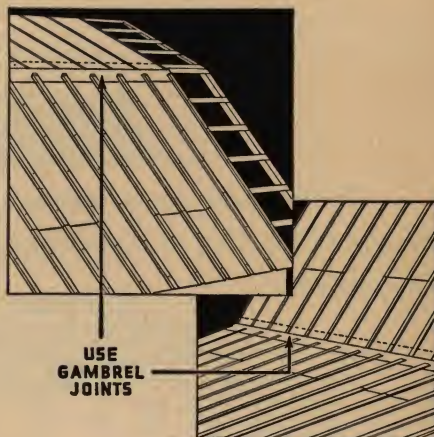


## 5 Extend The Starting Course Beyond The Wood Sheathing



To protect the wood sheathing at the sides of the roof from a thorough soaking each time it rains, allow the outside edges of the first and last courses of sheets to extend out beyond the wood  $1\frac{1}{2}$  to 2 inches. After the sheets are securely nailed, the projecting edge may be bent down and nailed on the side. **FINISHING EAVES** — A drip edge to protect the sheathing under the eaves is accomplished by extending the ends of the sheets beyond the board sheathing about 3 inches.

## 6 Use TYL-LYKE Gambrel Joint . . . . Don't Bend Sheets



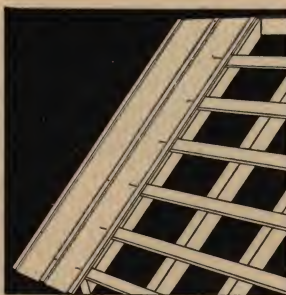
Gambrel roof joint must be used at points of change in the pitch of the roof. Tyl-Lyke—like all other types of preformed steel roofing—cannot be bent without opening the joints and causing leaks. Tyl-Lyke gambrel joint is a simple type of flashing shaped to fit the curve in the roof and the ridges in the sheets. It is installed on top of the lower sheet on the roof and underneath the upper sheet.

## 7 Check Each Course After It Is Nailed



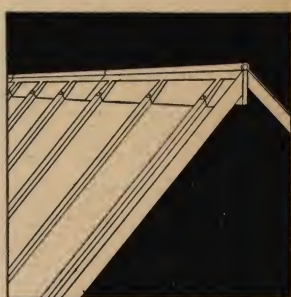
After each course from eave to comb has been applied and before you start the next course, inspect the last side lap joint nailed. If there are any gaps on the outside edges close them tightly by tapping or pressing down. Tyl-Lyke is carefully formed to fit snugly at the lap joints and not gap, but the edges of the sheets may be bent slightly during transit from the factory to job.

## 8 Mark Spots Where You Intend To Nail



Use lead head nails and drive every nail into solid wood so it will hold firmly. To assure this it is well to mark on each sheet the location of the horizontal nailing strips with carpenter's chalk, before the next course is laid. The chalk marks will show you where to nail to strike the nailing strips or rafters and prevent your making an unsealed hole in the roof.

## 9 Top It Off With "TYL-LYKE" Ridge Roll



Ridge roll is necessary for a good job of closing the roof at the comb. A plain sheet bent over and nailed down is a makeshift job. It will leave gaps between the ribs in the sheets. Tyl-Lyke ridge roll is adjustable to any pitch and is formed so that it will fit tightly over the laps in the sheets on both sides of the comb even though they are not in line.





# Use These Tables

To find how many square feet there are in any number of sheets of Corrugated Roofing of a specified length in either 2½ or 1¼ inch corrugated 26 inches wide.

No. of Sheets	6 Foot	7 Foot	8 Foot	9 Foot	10 Foot	11 Foot	12 Foot
1.....	13	15	17	20	22	24	26
2.....	26	31	35	39	44	48	52
3.....	39	46	52	59	65	72	78
4.....	52	61	70	78	87	96	104
5.....	65	76	87	98	109	120	130
6.....	78	91	104	117	130	143	156
7.....	91	107	122	137	152	167	182
8.....	104	122	139	156	174	191	208
9.....	117	137	156	176	195	215	234
10.....	130	152	174	195	217	239	260
11.....	143	167	191	215	239	263	286
12.....	156	182	208	234	260	286	312
13.....	169	198	226	254	282	310	338
14.....	182	213	243	273	304	334	364
15.....	195	228	260	293	325	358	390
16.....	208	243	278	312	347	382	416
17.....	221	258	295	332	369	406	442
18.....	234	273	312	351	390	429	468
19.....	247	289	330	371	412	453	494
20.....	260	304	347	390	434	477	520
21.....	273	319	364	410	455	501	546
22.....	286	334	382	429	477	525	572
23.....	299	349	399	449	499	549	598
24.....	312	364	416	468	520	572	624
25.....	325	380	434	488	542	596	650
26.....	338	395	451	507	564	620	676
27.....	351	410	468	527	585	644	702
28.....	364	425	486	546	607	668	728
29.....	377	440	503	566	629	692	754
30.....	390	455	520	585	650	715	780
31.....	403	471	538	605	672	739	806
32.....	416	486	555	624	694	763	832
33.....	429	501	572	644	715	787	858
34.....	442	516	590	663	737	811	884
35.....	455	531	607	683	759	835	910
36.....	468	546	624	702	780	858	936
37.....	481	562	642	722	802	882	962
38.....	494	577	659	741	824	906	988
39.....	507	592	676	761	845	930	1014
40.....	520	607	694	780	867	954	1040
41.....	533	622	711	800	889	978	1066
42.....	546	637	728	819	910	1001	1092
43.....	559	653	746	839	932	1025	1118
44.....	572	668	763	858	954	1049	1144
45.....	585	683	780	878	975	1073	1170
46.....	598	698	798	897	997	1097	1196
47.....	611	713	815	917	1019	1121	1222
48.....	624	728	832	936	1040	1144	1248
49.....	637	744	850	956	1062	1168	1274
50.....	650	759	867	975	1084	1192	1300

No. of Sheets	6 Foot	7 Foot	8 Foot	9 Foot	10 Foot	11 Foot	12 Foot
51.....	663	774	884	995	1105	1216	1326
52.....	676	789	902	1014	1127	1240	1352
53.....	689	804	919	1034	1149	1264	1378
54.....	702	819	936	1053	1170	1287	1404
55.....	715	835	954	1073	1192	1311	1430
56.....	728	850	971	1092	1214	1335	1456
57.....	741	865	988	1112	1235	1359	1482
58.....	754	880	1006	1131	1257	1383	1508
59.....	767	895	1023	1151	1279	1407	1534
60.....	780	910	1040	1170	1300	1430	1560
61.....	793	926	1058	1190	1322	1454	1586
62.....	806	941	1075	1209	1344	1478	1612
63.....	819	956	1092	1229	1365	1502	1638
64.....	832	971	1110	1248	1387	1526	1664
65.....	845	986	1127	1268	1409	1550	1690
66.....	858	1001	1144	1287	1430	1573	1716
67.....	871	1017	1162	1307	1452	1597	1742
68.....	884	1032	1179	1326	1474	1621	1768
69.....	897	1047	1196	1346	1495	1645	1794
70.....	910	1062	1214	1365	1517	1669	1820
71.....	923	1077	1231	1385	1539	1693	1846
72.....	93	1092	1248	1404	1560	1716	1872
73.....	949	1108	1266	1424	1582	1740	1898
74.....	962	1123	1283	1443	1604	1764	1924
75.....	975	1138	1300	1463	1625	1788	1950
76.....	988	1153	1318	1482	1647	1812	1976
77.....	1001	1168	1335	1502	1669	1836	2002
78.....	1014	1183	1352	1521	1690	1859	2028
79.....	1027	1199	1370	1541	1712	1883	2054
80.....	1040	1214	1387	1560	1734	1907	2080
81.....	1053	1229	1404	1580	1755	1931	2106
82.....	1066	1244	1422	1599	1777	1955	2132
83.....	1079	1259	1439	1619	1799	1979	2158
84.....	1092	1274	1456	1638	1820	2002	2184
85.....	1105	1290	1474	1658	1842	2026	2210
86.....	1118	1305	1491	1677	1864	2050	2236
87.....	1131	1320	1508	1697	1885	2074	2262
88.....	1144	1335	1526	1716	1907	2098	2288
89.....	1157	1350	1543	1736	1929	2122	2314
90.....	1170	1365	1560	1755	1950	2145	2340
91.....	1183	1381	1578	1775	1972	2169	2366
92.....	1196	1396	1595	1794	1994	2193	2392
93.....	1209	1411	1612	1814	2015	2217	2418
94.....	1222	1426	1630	1833	2037	2241	2444
95.....	1235	1441	1647	1853	2059	2265	2470
96.....	1248	1456	1664	1872	2080	2288	2496
97.....	1261	1472	1682	1892	2102	2312	2522
98.....	1274	1487	1699	1911	2124	2336	2548
99.....	1287	1502	1716	1931	2145	2360	2574
100.....	1300	1517	1734	1950	2167	2384	2600





## Corrugated Trimmings

For  $2\frac{1}{2}$  or  $1\frac{1}{4}$  Inch Corrugated Sheets

Made from Galvanized Steel or Galvanized Toncan Iron

### NO. 979 CORRUGATED RIDGE ROLL



Stock sizes 26 and 120 inch long—12 inch girth.

### NO. 980 CORRUGATED RIDGE CAP



Stock size 26 inches long, 12 inch girth—can be furnished in any girth. Formed with equal or unequal width legs.

### NO. 819 CORRUGATED GAMBREL ROOF JOINT



Stock size 26 inches long— $8\frac{1}{2}$  inch girth.

### NO. 978 CORRUGATED END WALL FLASHING



Stock size 26 inches long— $8\frac{1}{2}$  inch girth.

### NO. 977 CORRUGATED SIDE WALL FLASHING



Stock size 120 inches long—12 inch girth.

### LIST PRICES PER LINEAR FEET ON ABOVE STYLES

Gauge	Corrugations	List Price
No. 29.....	$2\frac{1}{2}$ inch, $1\frac{1}{4}$ inch.....	\$0.15
No. 28.....	$2\frac{1}{2}$ inch, $1\frac{1}{4}$ inch.....	.17
No. 26.....	$2\frac{1}{2}$ inch, $1\frac{1}{4}$ inch.....	.19





## Lead Washers

When used with regular roofing nails they prevent both the nail head from cutting into the sheet and rust formation underneath.

Requires approximately  $\frac{1}{2}$  lb. to square of roofing.

No. 2 (hole  $\frac{1}{8}$  inch)

Open stock

## Galvanized Large Head Barbed Roofing Nails



For Corrugated Roofing and Siding,

Asphalt Shingles, etc.

Stock Sizes

$\frac{1}{16}$ " Head, No. 11  
Gauge..... $\frac{3}{8}$ " 1"  $1\frac{1}{4}$ "  $1\frac{1}{2}$ "  $1\frac{3}{4}$ " 2" long

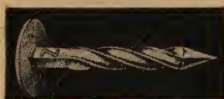
$\frac{1}{8}$ " Head, No. 12  
Gauge..... 1"  $1\frac{1}{4}$ "  $1\frac{1}{2}$ "  $1\frac{3}{4}$ " .. long

Requires approximately 1 lb. to square of roofing.

Kegs of 100 pounds, also open stock.

For schedule of Nails per pound and extras over Base see page 22.

## Zinclad SPIRAL ROOFING NAILS



Stock Sizes

Length	Head	Nails per lb.
1"	$\frac{7}{16}$ "	295
$1\frac{1}{4}$ "	$\frac{1}{2}$ "	220
$1\frac{1}{2}$ "	$\frac{1}{2}$ "	190
$1\frac{3}{4}$ "	$\frac{1}{2}$ "	164

These nails twist in when driven and hold like screws. Large head assures a generous purchase on roofing. They are heavily zinc coated.

Packed in 5 pound cartons—20 cartons to a case containing 100 pounds.

## Zinclad Corrugated Roofing Nails

**Zinclad**  
REG. U. S. PAT. OFF.



These nails are patented and made all in one piece. The head is heat treated. It seals the nail hole. Locks the screw from twisting out backwards. Won't damage or come apart. Holds better than any other one piece nail. Ideal where the highest degree of strength and permanence is desired. Furnished heavily zinc coated only.

Stock Sizes.

Length	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	2"	$2\frac{1}{2}$ "
No. per lb.....	120	105	90	74

Requires approximately  $1\frac{1}{4}$  lbs. of  $1\frac{1}{4}$ " or 2" to square of roofing.

Packed in 5 pound cartons—20 cartons to case containing 100 pounds.

## Deniston Lead Seal Roofing Nails

Smooth and Screw Shank.

Bright and Galvanized.

The lead is under the head and down the shank—plugs the nail hole with lead and covers the break in the Galvanizing—a double seal.

When driving the nail, the hammer hits the nail on the head. The lead cannot fly off; it is smashed tight between the head of the nail and the sheet and down along the shank into the hole around the nail, and it stays there. No moisture can penetrate this seal, for the triple-locking of nail, lead and sheet insures a permanent seal.



Smooth Shank



Bump locks nail, Sheet and Lead together



Screw Shank

Stock Sizes

Length	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	2"	$2\frac{1}{2}$ "
No. per lb.				
Bright.....	96	88	82	71
Galvanized.....	94	86	79	69

Smooth and Screw Shanks—same number of nails per pound.

Requires approximately  $1\frac{1}{2}$  lbs. of  $1\frac{1}{4}$ " or 2" to square of roofing.

Kegs of 100 pounds, also open stock.

## Anchor Shank Lead Head Nails



Anchor Shank Lead Head Nails

"Anchor" nails not only keep the roofing tight, but also, because of their soft lead heads, permanently seal and plug the nail-hole against moisture and leaks. The body of this nail carries a series of raised, anchor-like rings which imbed themselves in the wood. These anchors prevent any pull or twist after the nail has been driven.

Stock Sizes

Length	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	2"	$2\frac{1}{2}$ "
No per lb.				
Bright.....	108	100	94	70
Galvanized.....	106	98	91	68

Requires approximately  $1\frac{1}{4}$  lbs. of  $1\frac{1}{4}$ " or 2" to square of roofing.

Packed in 50 pound cartons, also open stock





## Badger Tools for Applying Metal Roofing

### DOUBLE SEAMER

For Single or Double Seaming



Sizes 1 in., and 1½ in.

### Flanging Tongs



The blades or jaws are made of a superior quality of steel, 18 in. long, with wrought handles.

Sizes 1 in., 1½ in., 1¾ in., and 2 in.

### END LOCK Former



### MALLEABLE HANDLE CAP SQUEEZER

Nos. 766—767



Width of Jaws, 1 inch  
No. 766 Malleable Handle Cap Squeezer.

No. 767 Malleable Handle Cap Squeezer fitted with a series of punches in the squeezing jaws, which perforate the Flanges, Cap and Cleat in the process of squeezing—these perforations prevent the cleat bending up over the top of the cap.



## Emrich's Plain Squeezing Tongs

This style of Tong is used to draw or squeeze together the folds of metal, forming a standing seam. The jaws are made of select iron with wrought handles, the grips of which are cast on the wrought handle, making it a very serviceable tool.

Width of Jaws: 1-inch.

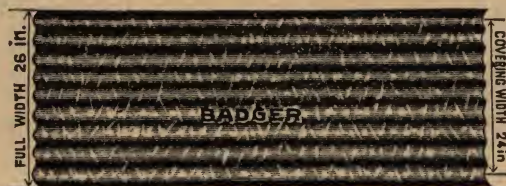
The tools illustrated above are all required in applying various kinds of roofing, illustrated in this catalog. They will be loaned to responsible sheet metal dealers without cost except that the dealers to whom we loan them will pay transportation charges both ways. They are charged on account when sent out and credited when returned.





## 2 $\frac{1}{2}$ Inch Corrugated Sheets

Galvanized Steel, Toncan Iron or "Seal of Quality"—2 ounce coated



Full width 26 inches. Covering width 24 inches.

Full length and width of sheets charged for.

Stock sizes.....	5	6	7	8	9	10	11	12 ft. lg.
Selling measurement.....	10 $\frac{5}{8}$	13	15 $\frac{1}{8}$	17 $\frac{1}{8}$	19 $\frac{1}{2}$	21 $\frac{2}{3}$	23 $\frac{5}{8}$	26 sq. ft.
Gauges in stock.....		29			28		26	
Wt. per Sq. Galvanized.....		77			84		98 lbs.	

Above schedule is subject to a variation of 2 $\frac{1}{2}$  per cent either way.

### How to Lay Corrugated Roofing

To apply either 2 $\frac{1}{2}$  inch or 1 $\frac{1}{4}$  inch corrugated sheet steel to a roof that has been measured and found true, lay the first sheet at the lower corner on the side away from prevailing storms, as explained before. Place that side of the sheet which has the corrugation turned down, to the end of the roof. Permit this side edge to project one corrugation over the roof boards at the gable end, and the bottom edge 2 inches over the eave. Be careful to keep sheets straight. After placing a sheet where wanted, nail at second corrugation from edge of sheet near each end to keep the sheet in proper position and from spreading when nailing at other points. Lap sheets at ends from 3 to 6 inches, according to pitch of roof (or 2 inches if used for Siding), and nail every alternate corrugation. 1 $\frac{1}{4}$ " Corrugated sheets are laid with 1 $\frac{1}{2}$  Corrugations side lap (See illustration page 37). Always drive nails through tops of corrugations, except at side laps drive the nails very little past the top and center of corrugation on the overlap side. These nails in the side laps of sheets should be about 8 inches apart.

The Hand Book referred to before gives several illustrations of Ridge finishes and Types of Flashings around chimneys. We suggest reference to them in order that you obtain a watertight job.





BADGER

# 1 $\frac{1}{4}$ Inch Corrugated Sheets

Galvanized Steel, Toncan Iron or "Seal Quality"—2 ounce coated



Full width 26 inches. Covering width 24 inches.

Full length and width of sheets charged for.

Badger 1 $\frac{1}{4}$  inch Corrugated Sheets represent the best material for Roofing when Corrugated Sheets are wanted. The extra half corrugation curves upward to meet the second corrugation of the overlapping sheet,—thereby overcoming capillary attraction. Badger 1 $\frac{1}{4}$  inch Corrugated Sheets are being very extensively used for Roofing.



Extra One-Half Corrugation to Prevent Leaks

Costs no more than the common  
With both edges turned down

Stock sizes.....	5	6	7	8	9	10	11	12 ft. lg.
Selling measurements.....	10 $\frac{5}{8}$	13	15 $\frac{1}{8}$	17 $\frac{1}{3}$	19 $\frac{1}{2}$	21 $\frac{2}{3}$	23 $\frac{5}{8}$	26 sq. ft.
Gauges in stock.....				29		28		26
Wt. per Sq. Galvanized.....				77		84		98 lbs.

Above schedule is subject to a variation of 2 $\frac{1}{2}$  per cent either way.





## $\frac{5}{8}$ Inch Corrugated Sheets

Galvanized Steel or Toncan Iron



Full width 26 inches. Covering width 24 inches.

Full length and width of sheets charged for.

Stock sizes .....	8 ft. lg.
Selling measurement .....	$17\frac{1}{3}$ sq. ft.
Gauges in stock .....	29
Wt. per Sq. Galvanized .....	77 lbs.

Above schedule is subject to a variation of  $2\frac{1}{2}$  per cent either way.

## $2\frac{1}{2}$ Inch and $1\frac{1}{4}$ Inch Corrugated Elevator Siding

Galvanized Steel, Toncan Iron or "Seal of Quality"—2 ounce coated



Sheets are laid in such a manner that the elevator sides have a chance to settle without disturbing the fastenings of sheets. Our  $2\frac{1}{2}$  inch Corrugated Sheets are 26 inches wide by 32 inches long, and cover 24 inches.  $1\frac{1}{4}$  inch Corrugated Sheets are also 26 inches wide by 32 inches long, and cover 24 inches. The sheets are laid with a 2 inch end lap, and the nails are two inches above the upper edge of lower sheets, thus allowing the sheets to slip 2 inches in every 32 inches as the sides of the elevator settle, and will not buckle or draw the nails.

Full length and width of sheets charged for.

### $2\frac{1}{2}$ Inch Corrugation

Stock size .....	26 inches x 32 inches		
Selling measurement .....	5 7-9 square feet		
Gauges in stock .....	29	28	26
Wt. per Sq. Galvanized .....	77	84	98 lbs.

### $1\frac{1}{4}$ Inch Corrugation

Stock size .....	26 inches x 32 inches		
Selling measurement .....	5 7/9 square feet		
Gauges in stock .....	29	28	26
Wt. per Sq. Galvanized .....	77	84	98 lbs.

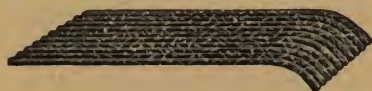
Above schedule is subject to a variation of  $2\frac{1}{2}$  per cent either way.





## 1 $\frac{1}{4}$ Inch Corrugated Curved Sheets

Galvanized Steel, Toncan Iron or "Seal of Quality" —2 ounce coated



No. 970

Single Curved Corrugated for Awnings



No. 971

Double Curved Corrugated for Awnings

Full width 26 inches. Covering width 24 inches.

Full length and width of sheets charged for.

Stock Sizes.....	5	6	7	8	9	10	11	12 ft. lg.
Selling measurement.....	10 $\frac{5}{8}$	13	15 $\frac{1}{8}$	17 $\frac{1}{3}$	19 $\frac{1}{2}$	21 $\frac{2}{3}$	23 $\frac{5}{8}$	26 sq. ft.
Gauges in stock.....				29		28		26
Wt. per Sq. Galvanized.....				77		84		98 lbs.

Above schedule is subject to a variation of 2 $\frac{1}{2}$  per cent either way.



No. 972

Single Curved Corrugated

Shows corrugated sheet for Roofing and Ceiling. We curve sheets to any required radius, and of any strength, from 16 to 28 gauges inclusive. All curving guaranteed perfect and in accordance with specifications furnished.



Curved Corrugated as Used with Beams

### DIRECTIONS FOR ORDERING

If for Roofing, allow for projections. If for Ceiling, give the distance between the webs of the I beams, rise of arch and length and number of spaces to be covered.





## 2 $\frac{1}{2}$ Inch Corrugated V Crimp Roofing

Galvanized Steel or Toncan Iron



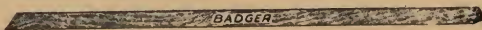
Full width 24 inches. Covering width 24 inches.

Full length and width of sheets charged for.

Stock Sizes.....	6	7	8	9	10	11	12 ft. lg.
Selling measurements.....	12	14	16	18	20	22	24 sq. ft.
Gauges in stock.....			29		28		26
Wt. per Sq. Galvanized.....			83		91		105 lbs.

Above schedule is subject to a variation of 2 $\frac{1}{2}$  per cent either way.

## V Wood Sticks



For applying the different styles of V Crimp Roofings.

## 2 $\frac{1}{2}$ Inch Corrugated Pressed Standing Seam Roofing

Galvanized Steel or Toncan Iron



Full width 24 inches. Covering width 24 inches.

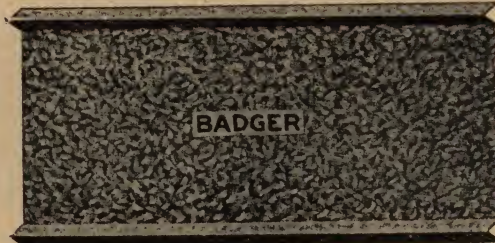
Full length and width of sheets charged for.

Stock sizes.....	6	7	8	9	10	11	12 ft. lg.
Selling measurements.....	12	14	16	18	20	22	24 sq. ft.
Gauges in stock.....			29		28		26
Wt. per Sq. Galvanized.....			83		91		105 lbs.

Above schedule is subject to a variation of 2 $\frac{1}{2}$  per cent either way.

**2 V CRIMP ROOFING**

Galvanized Steel or Toncan Iron



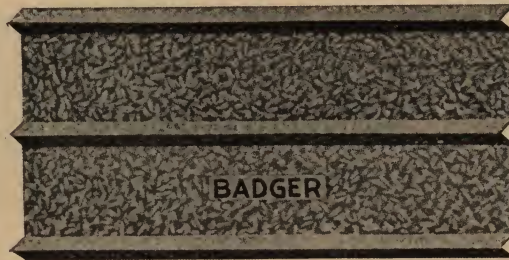
Full width 24½ inches. Covering width 24½ inches.  
Full length and width of sheets charged for.

Stock sizes.....	6	7	8	9	10	11	12 ft. lg.
Selling meas't.....	12¼	14-1/3	16-1/3	18¾	20-2/5	22½	24½sq. ft.
Gauges in stock.....		29		28			26
Wt. per Sq. Galvanized.....		78		85			98 lbs.

Above is subject to a variation of 2½ per cent either way.

**3 V CRIMP ROOFING**

Galvanized Steel or Toncan Iron



Full width 24 inches. Covering width 24 inches.  
Full length and width of sheets charged for.

Stock sizes.....	6	7	8	9	10	11	12 ft. lg.
Selling meas't.....	12	14	16	18	20	22	24 sq. ft.
Gauges in stock.....		29		28			26
Wt. per Sq. Galvanized.....		79		86			100 lbs.

Above is subject to a variation of 2½ per cent either way

**Directions for Applying V-Crimp Roofings**

To form end locks notch sheets ⅝ inch at both ends, close to V-Crimp. Bend upper end up, lower end down in inter-locking manner.

For first course mallet down V-Crimp about 1 inch. Turn edge over sheathing at Gable End. Nail with ¾ inch roofing nails about every 2 inches. Let lower end of sheet project about 1 or 1½ inch at eaves and slip wood strip under V-Crimp until the lower end is flush with the eaves. To finish eaves: snip sheets; turn down over edge and nail. Always slip wood sticks in from side of sheets not closer than 6 to 8 inches from ridge.

When first sheet is in place nail under end lock flange to sheathing. Hook end lock flanges together, mallet down and follow up roof to ridge. Let course project 1 inch at one side and 1½ inch on other side, for standing seam.

If Ridge Roll is used allow only ½ inch on one side and flatten down overlap.

In laying next course overlap V-Crimp of sheets, nail through V-Crimp and woodstick with 1¾ inch roofing nails about every 15 to 18 inches.

Always finish one course before laying the next.

To finish seam approaching ridge or hip, flatten down V-Crimp about 6 to 8 inches.

Hips are finished same as Ridge.

Tools necessary:

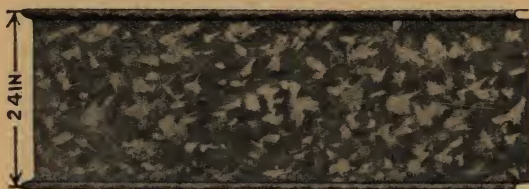
1 End Lock Former—See Page 35





## Pressed Standing Seam Roofing

Galvanized Steel or Toncan Iron



Full width 24 inches. Covering width 24 inches.  
Full length and width of sheets charged for.

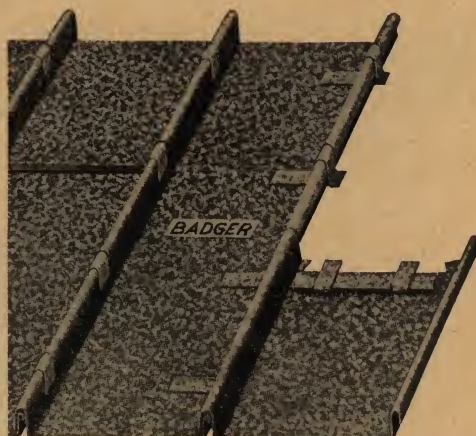
### 1 Inch Seam

Stock sizes.....	6	7	8	9	10	11	12 ft. lg.
Sell'g meas'ts.	12	14	16	18	20	22	24 sq. ft.
Gauges in stock.....	29				28		26
Wt. per Sq. Galvanized	79				86		100 lbs.

### 1 1/4 Inch High Seam

Stock sizes.....	6	7	8	9	10	11	12 ft. lg.
Sell'g meas'ts.	12	14	16	18	20	22	24 sq. ft.
Gauges in stock.....	29				28		26
Wt. per Sq. Galvanized	83				91		105 lbs.

Above is subject to a variation of  $2\frac{1}{2}$  per cent either way.



Shows Process of Applying  
Badger Pressed Standing Seam Roofing

### DIRECTIONS FOR APPLYING PRESSED STANDING SEAM ROOFING

To form end lock.

Notch sheets  $\frac{5}{8}$  inch, both ends,  $\frac{1}{2}$  inch inside standing seams. Turn upper end up, lower end down in interlocking manner.

For first course mallet down seam on side of sheet. Turn down END about 1 inch over edge of sheathing at Gable End. Nail with  $\frac{3}{4}$  inch nails every 2 inches. Let lower end project 1 or  $1\frac{1}{2}$  inches at Eaves. Turn down over Eaves and nail.

When first sheet is in place, nail under end lock flange to sheathing. Hook end lock flanges together. Follow up the roof with sheets. At Ridge let the course project one inch on one side and  $1\frac{1}{2}$  inch on the other side, for Standing Seam on Ridge.

If Ridge Roll is used allow only  $\frac{1}{2}$  inch on one side and flatten down as overlap.

When first course is laid squeeze the standing seam with cap squeezers and nail cleats at side every 14 inches, bending cleats over seam as shown in illustration.

In laying subsequent course, overlap standing seam, then turn the exposed portion of cleats back over standing seam and press or finish with Cap Squeezer. Always finish each course before laying next.

To finish the seam, approaching the ridge or hip, flatten down the standing seam about 6 to 8 inches.

Hips are finished same way as ridge.

Tools necessary: 1 No. 766 Cap Squeezer }  
1 End Lock Former } See Page 35





## "NOISELESS" PRESSED STANDING SEAM ROOFING

Especially Used on Residences  
Galvanized Steel or Toncan Iron  
Lays solid on roof and does not rattle.

Full width 12 inches. Covering width 12 inches  
Full length and width of sheets charged for.

Stock Sizes	6	7	8	9	10	feet long
Sell'g measure'ts.	6	7	8	9	10	Square feet
Gauges in stock	29	28	26			
Wt. per Sq. Galvanized	90	97	113	lbs.		

Above is subject to a variation of 2½ per cent either way.



## GALVANIZED ROOF STARTER



To be used in connection with Standing Seam Roofing. Makes a perfect eaves finish and is the most convenient roof starter ever put on the market. Made in 10 ft. lengths.

List Prices Per Linear Foot  
Made from Galvanized Steel and Toncan Iron

Girth	10"	12"	14"	16"	18"	20"	24"
No. 29 Gauge	\$.19	\$.24	\$.30	\$.36	\$.40	\$.46	\$.60
No. 28 Gauge	.20	.25	.32	.38	.42	.48	.65
No. 26 Gauge	.24	.31	.40	.46	.50	.58	.70

## "SUPERIOR" PRESSED STANDING SEAM ROOFING

Galvanized Steel or Toncan Iron



"A" shows finished seam. "B" explains method of application. "C" represents sheets as shipped.

Full width 24 inches. Covering width 24 inches.  
Full length and width of sheets charged for.

Stock Sizes	6	7	8	9	10	11	12 ft. lg.
Selling measurements	12	14	16	18	20	22	24 sq. ft.
Gauges in stock			29		28		26
Wt. per Sq. Galvanized			83		91		105 lbs.

Above is subject to a variation of 2½ per cent either way.

Tools necessary: 1 No. 767 Cap Squeezer }  
1 End Lock Former } See Page 35



## Badger Self-Cap Roll Roofing

Galvanized Steel or Toncan Iron



Each roll is 26½ inches wide and full 50 feet long and will cover 100 square feet when applied in the usual manner. Double cross locked together, notched and re-squared on ends and sides.

Gauges in stock . . . . . 29      28      26

Wt. per Sq. Galvanized . . . 81      88      102 lbs.

Above is subject to a variation of 2½ per cent either way.

### DIRECTIONS FOR APPLYING "BADGER" SELF-CAP ROLL ROOFING

For 1 inch Single Standing Seam.

Measure the length required to reach from Eave to Ridge, allowing 1 inch on one side and 1½ inches on the other side of Roof for Standing Seam on Ridge; also allow 1½ inches to 2 inches to bend down at Eaves.

When working from left to right hand—for the first course turn down 1 inch on left hand side of sheet for fitting over edge of Sheathing at Gable end, and nail same securely with ¾ inch barbed roofing nails spaced about 2 inches.

Then flange up the right hand side of sheet length with the 1½ inch Flanging Tongs.

After first course is in place, nail cleats along the 1½ inch flange, (about every 14 inches) letting cleat stand about 1 inch above the 1½ inch flange like in Figure 1—bending the cleat down over the flanges like in Figure 2.

Then flange up the left side of next course 1 inch and place same against the first course and with the 1 inch Double Seamer bend the projecting ½ inch over the 1 inch and close tight, which will leave the finished standing Seam 1 inch high like in Figure 3.

To finish each Seam, approaching Ridge or Hip, flatten down the Standing Seam about 6 to 8 inches.

Always finish each course before laying the next.

The finish of Ridge or Comb of Roof can be made same as the Standing Seam, by letting the sections pass the center of Ridge enough to flange up 1 inch on one side and 1½ inches on the other side.

If Ridge Roll is used—instead of allowing the 1 and 1½ inches on top of Ridge for Standing Seam, allow only ½ inch on one side and flatten down as an overlap.

NOTE: When working from right to left, the 1½ inch flange should be on left side and the 1 inch flange on right side of sheet.

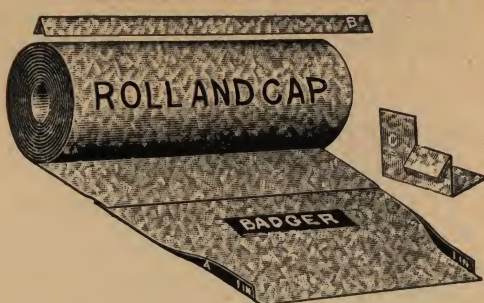
Tools necessary:

- 1 pair 1 inch Flanging Tongs
- 1 pair 1½ inch Flanging Tongs
- 1 pair 1 inch Double Seamer

See Page 35.

## Roll and Cap Roofing

Galvanized Steel or Toncan Iron



Each roll is 26½ inches wide and full 50 feet long and will cover 100 square feet when applied in the usual manner. Double cross locked together, notched and re-squared on ends and sides.

With each square we furnish twenty-five separate caps, each 26 inches long and one pound of cleats, unless otherwise ordered. Caps can be furnished in any length up to 8 feet, if so ordered.

Gauges in stock . . . . . 29      28      26

Wt. per Sq. Galvanized . . . 86      93      108 lbs.

Above is subject to a variation of 2½ per cent either way.

For 1 inch Double Standing Seam.

Measure the length required to reach from Eave to Ridge, allowing 1 inch on one side and 1½ inches on the other side of Roof for Standing Seam on Ridge, also allow 1½ to 2 inches to bend down at Eave.

When working from left to right hand—for the first course turn down 1 inch on left hand side of sheet for fitting over edge of Sheathing at Gable end, and nail same securely with ¾ inch barbed roofing nails spaced about 2 inches. Then flange up the right hand side of sheet length with the 1½ inch Flanging Tongs.

After the first course is in place, nail the cleats along the 1½ inch flange about every 14 inches. Then flange up the left side of next course 1½ inches and place same against the first course, and with the 1½ inch Double Seamer bend the projecting ¼ inch over, and then follow with the 1 inch Double Seamer, which will break over ½ inch, leaving the finished standing seam 1 inch high.

To finish each Seam approaching Ridge or Hip, flatten down the Standing Seam about 6 to 8 inches.

Always finish each course before laying the next.

The finish of Ridge or Comb of Roof can be made same as the Standing Seam, by letting the sections pass the center of ridge enough to flange up 1 inch on one side and 1½ inches on the other side.

If Ridge Roll is used—instead of allowing the 1 and 1½ inches on the top of Ridge for Standing Seam, allow only ½ inch, on one side and flatten down as an overlap.

Hips are always finished the same way as Ridge, after cutting to proper angle.

NOTE: When working from right to left the 1½ inch flange should be on left side and the 1¾ inch flange on right side of sheet.

Tools necessary:

- 1 pair 1½ inch Flanging Tongs.
- 1 pair 1¾ inch Flanging Tongs
- 1 pair 1 inch Double Seamers
- 1 pair 1½ inch Double Seamers

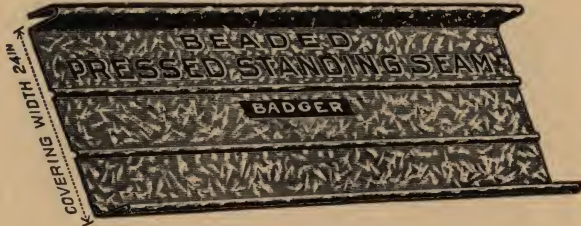
See Page 35.





## Beaded Pressed Standing Seam Roofing

Galvanized Steel or Toncan Iron



The object of beads is to stiffen the sheets and prevent rattling.

Full width 24 inches. Covering width 24 inches.

Full length and width of sheets charged for.

Stock sizes.....	6	7	8	9	10	11	12 ft. lg.
Selling measurements.....	12	14	16	18	20	22	24 sq. ft.
Gauges in stock.....		29			28		26
Wt. per Sq. Galvanized.....		79			86		100 lbs.

Above is subject to a variation of  $2\frac{1}{2}$  per cent either way.

## Beaded Siding and Ceiling

Galvanized Steel or Toncan Iron



Beads  $\frac{3}{8}$  inches wide,  $\frac{1}{8}$  inch deep, 3 inches apart.

Full width 27 inches. Covering width 27 inches.

Full length and width of sheets charged for.

Stock sizes.....	5	6	7	8	9	10 ft. lg.
Selling measurements.....	$11\frac{1}{4}$	$13\frac{1}{2}$	$15\frac{3}{4}$	18	$20\frac{1}{4}$	$22\frac{1}{2}$ sq. ft.
Gauges in stock.....		29		28		26
Wt. per Sq. Galvanized.....		77		84		98 lbs.

Above is subject to a variation of  $2\frac{1}{2}$  per cent either way.





## When Estimating

Plain Brick Siding, Rock Face Brick Siding, and Rock Face Stone Siding, as shown on Pages 47 and 48.

### USE THESE TABLES

No. Shts.	Square Feet	No. Shts.	Square Feet	No. Shts.	Square Feet	No. Shts.	Square Feet
1.....	12	26.....	304	51.....	595	76.....	887
2.....	24	27.....	315	52.....	607	77.....	899
3.....	35	28.....	327	53.....	619	78.....	910
4.....	47	29.....	339	54.....	630	79.....	922
5.....	59	30.....	350	55.....	642	80.....	934
6.....	70	31.....	362	56.....	654	81.....	945
7.....	82	32.....	374	57.....	665	82.....	957
8.....	94	33.....	385	58.....	677	83.....	969
9.....	105	34.....	397	59.....	689	84.....	980
10.....	117	35.....	409	60.....	700	85.....	992
11.....	129	36.....	420	61.....	712	86.....	1004
12.....	140	37.....	432	62.....	724	87.....	1015
13.....	152	38.....	444	63.....	735	88.....	1027
14.....	164	39.....	455	64.....	747	89.....	1039
15.....	175	40.....	467	65.....	759	90.....	1050
16.....	187	41.....	479	66.....	770	91.....	1062
17.....	199	42.....	490	67.....	782	92.....	1074
18.....	210	43.....	502	68.....	794	93.....	1085
19.....	222	44.....	514	69.....	805	94.....	1097
20.....	234	45.....	525	70.....	817	95.....	1109
21.....	245	46.....	537	71.....	829	96.....	1120
22.....	257	47.....	549	72.....	840	97.....	1132
23.....	269	48.....	560	73.....	852	98.....	1144
24.....	280	49.....	572	74.....	864	99.....	1155
25.....	292	50.....	584	75.....	875	100.....	1167

### Directions for Applying Brick and Stone Face Siding over Wood Sheathing

With a spirit level and chalk line get the level of your building entirely around its base or top and strike a line corresponding thereto.

Place a full sheet of siding at one corner of the building, allowing the end to extend two or more feet past the corner so that the cross grooves are immediately over the corner, the lower edge of the sheet resting on the chalk line.

Nail the sheet to the wall through the grooves sufficiently to hold it fast and to bring it down solid all the way along. Begin at the middle of the sheet to nail and work towards the ends and sides, putting nails two or three bricks apart. Never nail through the brick.

Bend the projecting two feet around the corner with the hands or with a piece of board, using a mallet slightly to bring down any uneven places.

Lay around the building until you meet the first sheet laid. Place the first sheet of the second tier over the first so as to break joints perfectly as in brick work, letting the half groove at the bottom of the sheet lap over the first and fit closely in the half groove at the top of the first sheet.

Window and door frames should not be put in until after the siding is on. But in case the frames are in, the Steel Siding may be applied and faced at doors and windows the same as for wood siding.

At windows or doors cut the sheets about three inches above the bottom sill, and the same distance from the side. Then cut from the corner, thus formed, obliquely to the corner of the window or door space, bend the steel with the hands down upon the window sill and around the side of the studding, and nail it fast. The window frames fit in over these laps and show a complete brick finish.



## Weather Board Siding

Galvanized Steel or Toncan Iron



Each sheet, 6 boards, 4 inches wide.

Full width 25 inches. Covering width 24 inches.

Stock sizes.....	6	7	8	9	10 ft. lg.
Selling measurements.....	12	14	16	18	20 sq. ft.
Gauges in stock.....	29		28		26
Wt. per Sq. Galvanized.....	81		88		102 lbs.

Also made in 3 inch and 2 inch boards at extra cost.

Above is subject to variation of  $2\frac{1}{2}$  per cent either way.

## Metal Corner Board



Metal Corner Board is used to properly finish the corners and angles of buildings where weather Board Siding is used.

Metal Corner Board is made from Galvanized Steel or Toncan Iron to match the Weather Board Siding shown above. Made in lengths of 2 to 8 feet with 10 inch girth.

## "Imperial" Plain Pressed Brick Siding

Galvanized or Painted Steel or Toncan Iron



Size of individual brick  $2\frac{4}{5} \times 8\frac{1}{4}$  inches. Sheets 28x60 inches, containing  $11\frac{2}{3}$  square feet.

Full length and width of sheets charged for.

Gauges in stock.....	29	28	26
Wt. per Sq. Galvanized.....	72	78	91 lbs.
Wt. per Sq. Painted.....		64	.. lbs.

Above is subject to a variation of  $2\frac{1}{2}$  per cent either way.





## Rock Face Brick Siding

Galvanized or Painted Steel or Toncan Iron



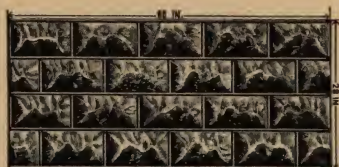
Size of individual brick  $2\frac{4}{5} \times 8\frac{1}{2}$  inches. Sheets 28x60 inches, containing  $11\frac{2}{3}$  square feet.

Full length and width of sheets charged for.

Gauges in stock.....	29	28	26
Wt. per Sq. Galvanized.....	72	78	91 lbs.
Wt. per Sq. Painted.....	..	64	.. lbs.

## Rock Face Stone Siding No. 1

Galvanized or Painted Steel or Toncan Iron



Sheets 28x60 inches, containing  $11\frac{2}{3}$  square feet. Size of single stone, 7x12 inches. Full length and width of sheets charged for.

Gauges in stock.....	29	28	26
Wt. per Sq. Galvanized.....	72	78	91 lbs.
Wt. per Sq. Painted.....	..	64	.. lbs.

## Rock Face Stone Siding No. 2

Galvanized or Painted Steel or Toncan Iron



Sheets 28x60 inches, containing  $11\frac{2}{3}$  square feet. Size of single stone,  $9\frac{1}{3} \times 20$  inches.

Full length and width of sheets charged for.

Gauges in stock.....	29	28	26
Wt. per Sq. Galvanized.....	72	78	91 lbs.
Wt. per Sq. Painted.....	..	64	.. lbs.

Above is subject to a variation of  $2\frac{1}{2}$  per cent either way.



## Continuous Rock Face Stone



Pressed in 5 feet lengths.

### List Price per Linear Foot

	Painted	Galvanized
No. 20, 6 inches wide.....	\$ .04½	\$ .06
No. 21, 8 inches wide.....	.06	.08
No. 22, 10 inches wide.....	.07½	.10
No. 23, 12 inches wide.....	.09	.12

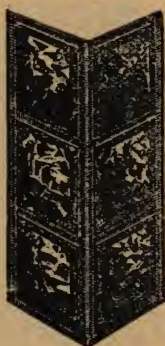
### Corners and Pilasters



No. 112 Plain Brick Corner



No. 111 Rock Face Brick Corner



No. 109 Rock Face Stone Corner



No. 113 Rock Face Stone Pilaster

### List Price per Linear Foot

	Painted	Galvanized
No. 109, 12 inch face.....	\$ .18	\$ .24
No. 111, 28 inch lengths.....	.06	.08
No. 112, 28 inch lengths.....	.05	.07
No. 113, 10 inch face, 4 inch return.....	.13½	.18
No. 113, 12 inch face, 4 inch return.....	.15	.20
No. 113, 16 inch face, 4 inch return.....	.18	.24

### Galvanized Plain and Rock Face Stone Window and Door Caps



No. 703

When ordering Window Caps, always give width of frame. If segment top, give radius of same, and if elliptic, send full size drawing of window. Always give distance the Cap is to run back from face of wall. State whether Cap is to be built into brick wall or put on building already erected. We can furnish any design wanted. Submit sketch or drawing and details for quotation.



No. 927. Face, 6 inches



No. 930 Face, 8 inches





## Continuous Ceiling and Side Wall Plates



### CONTINUOUS PLATE NO. 1001

24"x96" only;  $\frac{1}{4}$ " deep  
List Price  $7\frac{1}{2}$  cents per Sq. Ft.  
Shown in Design on Page 61



### CONTINUOUS PLATE NO. 1100

24"x96" only;  $\frac{1}{4}$ " deep  
List Price  $7\frac{3}{4}$  cents per Sq. Ft.  
Shown in Design on Page 62



### CONTINUOUS CEILING PLATE NO. 1806

(6" Multiple Design)  
24"x24", 24"x48" or 24"x96";  $\frac{1}{4}$ " deep  
List Price 8 cents per Sq. Ft.  
Shown in Design on Page 58

All ceiling and side wall plates, cornices, mitres, etc., painted gray.  
Write for our complete Ceiling Catalog.



## Continuous Ceiling and Side Wall Plates



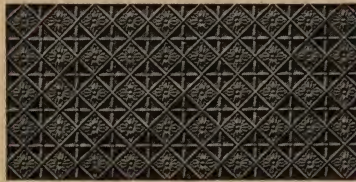
### CONTINUOUS PLATE NO. 2306

(4" Multiple Design)

24"x24", 24"x48" or 24"x96";  $\frac{3}{16}$ " deep

List Price 8 cents per Sq. Ft.

Shown in Design on Page 60.



### CONTINUOUS PLATE NO. 2301

(3" Multiple Design)

24"x24", 24"x48" or 24"x96"

List Price 8 cents per Sq. Ft.

Can also be used for Filler.



### CEILING PLATE NO. 2310

(6" Multiple Design)

24"x48" only ;  $\frac{1}{4}$ " deep

List Price 8 cents per Sq. Ft.

Shown in Design on Page 59.

Write for our complete Ceiling Catalog.





## Continuous Ceiling and Side Wall Plates



NO. 1200

### SELF-FURRING, CONTINUOUS CEILING PLATE

24"x98". Each panel is 12"x24"  
Adaptable to joists spaced 12", 16" or 24" apart  
List Price 8 cents per Sq. Ft.  
Shown in Design on Page 63.

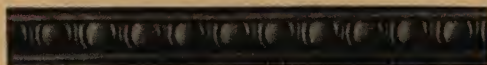


NO. 1201

### CONTINUOUS CEILING PLATE

24"x96". Each panel is 12"x12"  
List Price 8 cents Per Sq. Ft.  
Shown in Design on Page 64.

### CORNICES AND MITRES



No. 1134 Cornice 3" deep, 3" projection;  
48" long.....5 cents per lin. ft.  
No. 1134-A Inside Mitre.....30 cents each.  
No. 1134-B Outside Mitre.....30 cents each



No. 1150 Cornice, 4" deep, 4" projection;  
48" long.....7 cent per lin. ft.  
No. 1150-A Inside Mitre.....35 cents each  
No. 1150-B Outside Mitre.....35 cents each



No. 2432 Cornice, 6" deep, 6" projection;  
48" long.....10 cents per lin. ft.  
No. 2432-A Inside Mitre.....60 cents each  
No. 2432-B Outside Mitre.....60 cents each

Write for our complete Ceiling Catalog.





## Fillers



No. 1743 Stipple-9", 12", 15", 18", 21", 24", or 30" wide; 96" long.  
8 cents Per Sq. Ft.



No. 1744—Width of Molding 3"; Total Width 9", 12", 15", 18", 21" or 24";  
 $\frac{5}{8}$ " deep. Furnished in strips 48" long.  
8 cents Per Sq. Ft.

### Metal Ceilings and Side Walls.

Practical advantages not obtainable from any other type of ceiling construction are embodied in Metal Ceilings and Side Walls. They are fire-safe, permanent, crack proof, easy to erect, artistic and economical. They can never sag, crack or fall off. They are not affected by heat, cold or dampness.

A wide variety of designs and combinations are available—carried in stock for immediate shipment. Just a few of these designs are shown here.

A complete catalog of metal wall and ceiling designs will be sent to recognized Sheet Metal Contractors or Architects upon request.

### Measuring Rooms for Metal Ceilings and Sidewalls

When sending in measurements for metal ceilings or sidewalls, include a simple outline to indicate the shape and dimensions of the room. Drawings do not have to be made to scale—just give exact measurements. Of course, if you can send exact blueprints, do so, as they are more convenient for us to work with.

Be sure to indicate the exact size and location of all offsets, such as chimneys, elevators, skylight openings, beams and stairways. State whether or not cornice may be used across front of room.

When estimating, do not make any deductions for skylight openings of less than 100 square feet, nor for stairways, chimneys or other openings or projections of less than 50 square feet.

### How to Estimate Area of Ceiling

When figuring the cost of Metal Ceiling, take the overall area of the room in square feet and multiply it by a list price of \$8.00 per square which is the average list price for all Field Plates and Fillers. To this you will add the linear feet of Cornice required at the published list price and the number of inside and outside mitres, at their published list price. From the total list price of the job, after having added the total list price of Field plates, Cornice and

Cornice Mitres together, you will take a discount as quoted and add the freight using a shipping weight of 60 lbs. per square.

If there are beams in the room, be sure to add the extra Mitres and extra linear footage of Cornice required on the sides of the beam. Taking the overall area of the room will take care of the underside of the beam covering.

Our quotations and estimates will always include all sheet metal shown in the design specified, with one wood bracket cut to the profile of the cornices and mouldings at each lapping joint.

A blueprint working drawing showing the arrangement of the various plates, is furnished with every ceiling. Itemized packing sheets giving quantity and catalog number and size of the material are also included.

The first thing to do when a shipment arrives is to check the number of packages with the bill of lading. The contents of each package should then be checked and counted against the packing sheets.

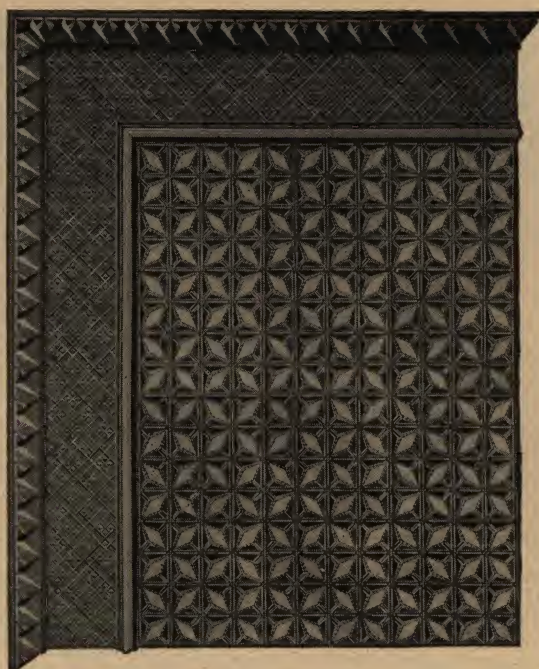
We can furnish when required  $\frac{7}{8}$ " x  $1\frac{1}{4}$ " select soft wood furring strips.

Write for our complete Ceiling Catalog.





## "Modern Series" -- Design No. 3030



### Specifications

#### Units in this Combination

- No. 3021 Cornice, 3" Proj. 6" Deep. ....
- No. 3021 "A" Inside Cornice Mitre. ....
- No. 3021 "B" Outside Cornice Mitre. ....
- No. 3002 Molded Filler. ....
- No. 3002 "A" or "B" Mitres. ....
- No. 3012 Field Plate in sheets 24"x24" or 24"x48" . . .

Not illustrated in  
individual units.

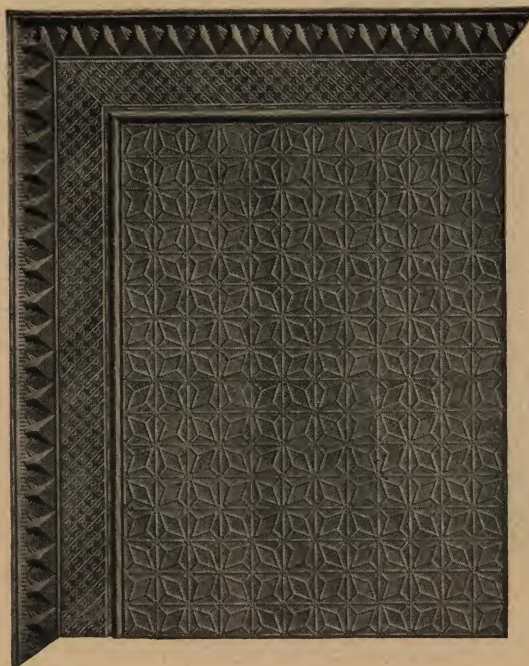
#### List Prices

- 10c per lin. ft.
- 60c each
- 60c each
- 8c per sq. ft.
- 8c per sq. ft.
- 8c per sq. ft.

Write for our complete ceiling catalog.



## "Modern Series" -- Design No. 3000



### Specifications

#### Units in this Combination

- No. 3003 Cornice 4½" Proj. 8" Deep.....
- No. 3003 "A" Inside Corner Mitre.....
- No. 3003 "B" Outside Corner Mitre.....
- No. 3002 Molded Filler.....
- No. 3002 "A" or "B" Filler Mitre.....
- No. 3001 Field Plate, in sheets 24"x24" or 24"x48"

Not illustrated in  
individual units

#### List Prices

- 14c per lin. ft.
- 65c each
- 65c each
- 8c per sq. ft.
- 8c per sq. ft.
- 8c per sq. ft.

Write for our complete ceiling catalog.





## "Modern Series" — Design No. 3010



### Specifications

#### Units in this Combination

- No. 3003 Cornice,  $4\frac{1}{2}$  Proj. 8" Deep.....  
 No. 3003 "A" Inside Cornice Mitre.....  
 No. 3003 "B" Outside Cornice Mitre.....  
 No. 3002 Molded Filler.....  
 No. 3002 "A" or "B" Filler Mitres.....  
 No. 3011 Field Plate, in sheets 24"x24" or 24"x48"...

Not illustrated in  
individual units.

#### List Price

- 14c per lin. ft.  
 65c each  
 65c each  
 8c per sq. ft.  
 8c per sq. ft.  
 8c per sq. ft.

Write for our complete ceiling catalog.



## Colonial—Design No. 2735



A beautiful, conservative Flush Back pattern, which meets the modern tendency toward simplicity.

Field Plates are  $\frac{7}{8}$  inch deep. A very practical and popular design.

### Specifications

#### Units in this combination

No. 2432 Cornice.....	}
No. 2432 "A" or "B" Cornice Mitres.....	
No. 2244 Molded Filler.....	
No. 2244 Molded Filler Mitres.....	
No. 2700 Field Plate in sheets 24"x48".....	

Not illustrated in  
individual units

#### List Prices

10c per lin. ft.
60c each
8c per sq. ft.
8c per sq. ft.
8c per sq. ft.

Write for our complete Ceiling Catalog.





## French Renaissance — Design No. 1887



### Specifications

Units in this Combination	For Details Consult	List Prices
No. 2433 Cornice.....	} Not illustrated in individual units	6c per lin. ft.
No. 2433 "A" or "B" Cornice Mitres.....		40c each
No. 1744 Molded Filler.....	Page 53	8c per sq. ft.
No. 1744 "A" or "B" Filler Mitres.....	Page 53	8c per sq. ft.
No. 1806 Field Plate, in sheets 24''x48'' or 24''x96''....	Page 50	8c per sq. ft.

Write for our complete Ceiling Catalog.



## Miscellaneous -- Design No. 2350



Adaptable to either large or small rooms because of the combined small and large square effect. In a small room the small square pattern predominates, but over large areas the small squares appear to merge and form large square units appropriate to the size of the room.

### Specifications

#### Units in this Combination

#### For Details Consult

#### List Prices

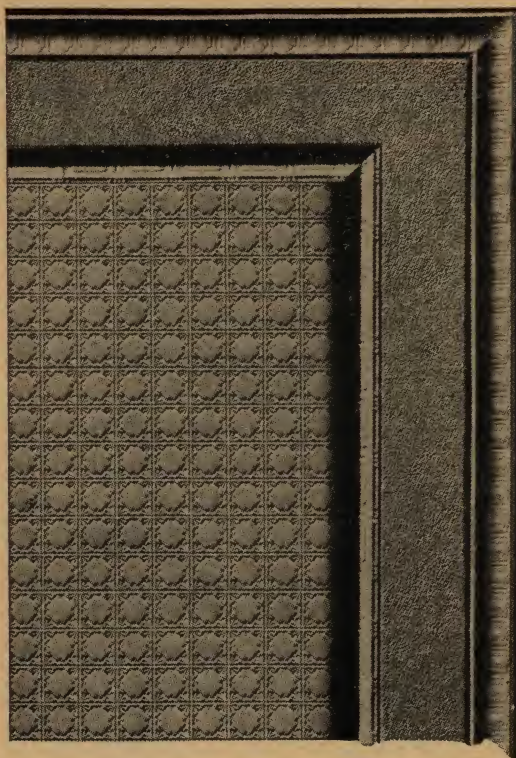
No. 2432 Cornice . . . . .	Page 52	10c per lin. ft.
No. 2432 "A" or "B" Cornice Mitres . . . . .	Page 52	60c each
No. 1744 Molded Filler . . . . .	Page 53	8c per sq. ft.
No. 1744 "A" or "B" Mitres . . . . .	Page 53	8c per sq. ft.
No. 2310 Field Plate, in sheets 24"x48" . . . . .	Page 51	8c per sq. ft.

Write for our complete Ceiling Catalog.





## Residence—Design No. 2374



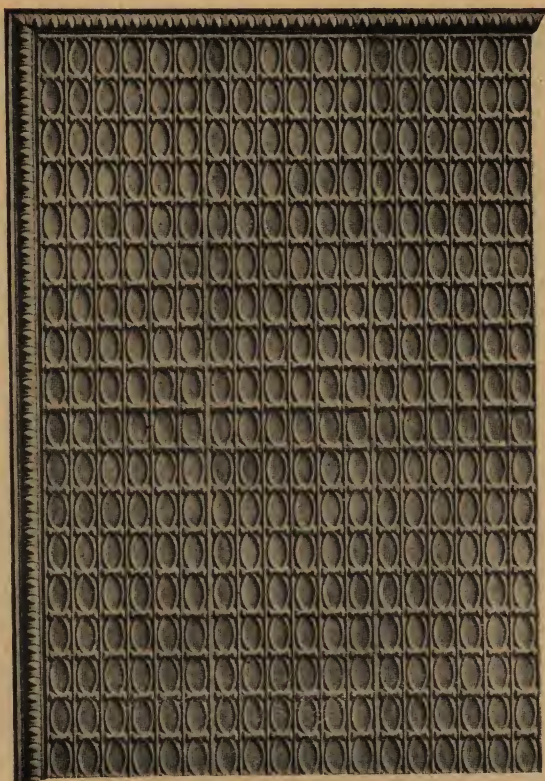
### Specifications

Units in this Combination	For Details Consult	List Prices
No. 1150 Cornice.....	Page 52	7c per lin. ft.
No. 1150 "A" or "B" Cornice Mitres.....	Page 52	35c each
No. 1744 Molded Filler.....	Page 53	8c per sq. ft.
No. 1744 "A" or "B" Molded Filler Mitres.....	Page 53	8c per sq. ft.
No. 2306 Field Plate, in sheets 24"x48" or 24"x96"....	Page 51	8c per sq. ft.

Write for our complete Ceiling Catalog.



## MISCELLANEOUS — Design No. 1066



## Specifications

Units in this Combination	For Details Consult	List Prices
No. 1134 Cornice.....	Page 52	5c per lin. ft.
No. 1134 "A" or "B": Cornice Mitres.....	Page 52	30c each
No. 1001 Continuous Field Plate, in sheets 24"x96"...	Page 50	7½c per sq. ft.

Write for our complete Ceiling Catalog.





MISCELLANEOUS—Design No. 1124



Specifications

Units in this Combination	For Details Consult	List Prices
No. 1150 Cornice.....	Page 52	7c per lin. ft.
No. 1150 "A" or "B" Cornice Mitres.....	Page 52	35c each
No. 1100 Continuous Field Plate, in sheets 24"x96"...	Page 50	7 $\frac{3}{4}$ c per sq. ft.

Write for our complete Ceiling Catalog.



## SELF-FURRING, CONTINUOUS CEILING—Design No. 1250



## Specifications

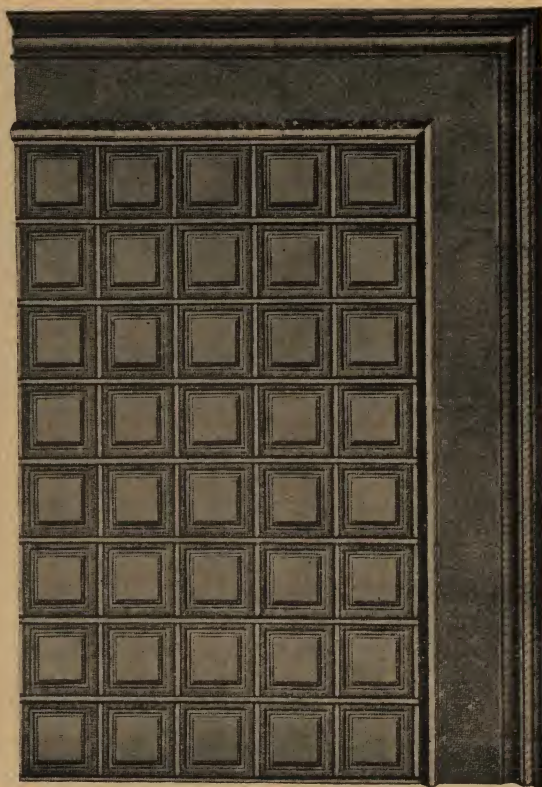
Units in this Combination	For Details Consult	List Prices
No. 1150 Cornice.....	Page 52	7c per lin. ft.
No. 1150 "A" or "B" Cornice Mitres.....	Page 52	35c each
No. 1743 Plain Filler.....	Page 53	8c per sq. ft.
No. 1200 Continuous Self-Furring Ceiling Plate, in sheets 24"x98" Adjustable to 24"x96".....	Page 52	8c per sq. ft.

Write for our complete Ceiling Catalog.





## CONTINUOUS—Design No. 1270



## Specifications

Units in this Combination	For Details Consult	List Prices
No. 2432 Cornice.....	Page 52	10c per lin. ft.
No. 2432 "A" or "B" Cornice Mitres.....	Page 52	60c each
No. 1744 Molded Filler.....	Page 53	8c per sq. ft.
No. 1744 "A" or "B" Molded Filler Mitres.....	Page 53	8c per sq. ft.
No. 1201 Field Plate, in sheets 24"x96".....	Page 52	8c per sq. ft.

Write for our complete Ceiling Catalog.



## Finials

Made from Galvanized Steel, Galvanized Toncan Iron and Pure Copper.

State Whether round,  
square, or octagon  
base is wanted.



No. 302

Height.....3 feet  
Round, Square or Octa-  
gon Base



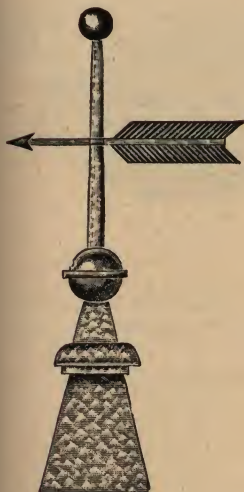
No. 300

Height.....1½ feet  
Round, Square or Octa-  
gon Base



No. 309

Height.....3 feet  
Round, Square, or Octa-  
gon Base



No. 304

Height.....3½ feet  
Round, Square or Octa-  
gon Base



No. 306

Round, Square or Octa-  
gon Base



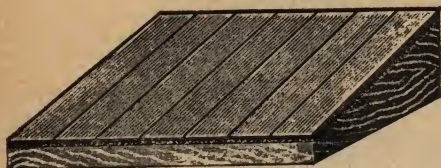
No. 307

Round, Square, or Octa-  
gon Base

Crosses built any height required.

We make all Styles and Sizes of Finials and Crosses from any drawings furnished. Send us your specifications and we will quote prices.





No. 880

**SINGLE PITCH**—Is hinged when required and used as a Scuttle.

List of Sizes

3x3 ft.	5x10 ft.
3x4 ft.	6x 8 ft.
3x5 ft.	6x10 ft.
3x6 ft.	6x12 ft.
4x4 ft.	6x14 ft.
4x5 ft.	8x10 ft.
4x6 ft.	8x12 ft.
4x8 ft.	8x14 ft.
5x9 ft.	

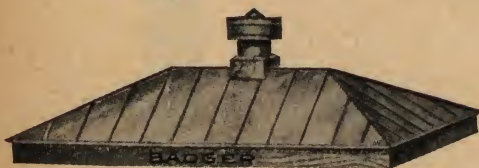


No. 884

**HIPPED TURRET**—Has Stationary Louvre Ventilators on sides and ends.

List of Sizes

3x3 ft.	5x10 ft.
3x4 ft.	6x 8 ft.
3x5 ft.	6x10 ft.
3x6 ft.	6x12 ft.
4x4 ft.	6x14 ft.
4x5 ft.	8x10 ft.
4x6 ft.	8x12 ft.
4x8 ft.	8x14 ft.
5x9 ft.	



No. 883

**HIPPED Skylights** will be shipped complete with Vents and Dampers, unless otherwise specified.

List of Sizes

3x 3 ft.	6x 6 ft.
3x 4 ft.	6x 8 ft.
3x 5 ft.	6x10 ft.
3x 6 ft.	6x12 ft.
4x 4 ft.	6x14 ft.
4x 5 ft.	7x 7 ft.
4x 6 ft.	8x 8 ft.
4x 8 ft.	8x12 ft.
5x 5 ft.	8x14 ft.
5x 9 ft.	9x 9 ft.
5x10 ft.	10x10 ft.

## "BADGER" Galvanized Skylights

Glass laid in Putty.

All Skylights Built to Special Order.



No. 881

**DOUBLE PITCH**—Has Stationary Louvre Ventilator on each end.

List of Sizes

3x3 ft.	5x10 ft.
3x4 ft.	6x 8 ft.
3x5 ft.	6x10 ft.
3x6 ft.	6x12 ft.
4x4 ft.	6x14 ft.
4x5 ft.	8x10 ft.
4x6 ft.	8x12 ft.
4x8 ft.	8x14 ft.
5x9 ft.	



No. 885

**HIPPED TURRET**—Has Ridge Ventilator and Movable Side Sash, with Locking Apparatus.

List of Sizes

3x3 ft.	5x10 ft.
3x4 ft.	6x 8 ft.
3x5 ft.	6x10 ft.
3x6 ft.	6x12 ft.
4x4 ft.	6x14 ft.
4x5 ft.	8x10 ft.
4x6 ft.	8x12 ft.
4x8 ft.	8x14 ft.
5x9 ft.	

For construction, etc., of Badger Skylights. See page No. 67.





## Badger Puttyless Skylights

All Skylights Built to Special Order.



No. 895—Double Pitch, with Louvre and Ventilator on Ends.

### List of Sizes

3x 3 ft.	6x 6 ft.
3x 4 ft.	6x 8 ft.
3x 5 ft.	6x10 ft.
3x 6 ft.	6x12 ft.
4x 4 ft.	6x14 ft.
4x 5 ft.	7x 7 ft.
4x 6 ft.	8x 8 ft.
4x 8 ft.	8x12 ft.
5x 5 ft.	8x14 ft.
5x 9 ft.	9x 9 ft.
5x10 ft.	10x10 ft.



No. 896—Double Pitch, with "Perfect" Ventilator and Galvanized Ends.

Skylights will be shipped complete with Vents and Dampers, as illustrated, unless otherwise specified.



No. 897—Hipped

### List of Sizes

3x 3 ft.	6x 6 ft.
3x 4 ft.	6x 8 ft.
3x 5 ft.	6x10 ft.
3x 6 ft.	6x12 ft.
4x 4 ft.	6x14 ft.
4x 5 ft.	7x 7 ft.
4x 6 ft.	8x 8 ft.
4x 8 ft.	8x12 ft.
5x 5 ft.	8x14 ft.
5x 9 ft.	9x 9 ft.
5x10 ft.	10x10 ft.

### List of Sizes

3x 3 ft.	6x 6 ft.
3x 4 ft.	6x 8 ft.
3x 5 ft.	6x10 ft.
3x 6 ft.	6x12 ft.
4x 4 ft.	6x14 ft.
4x 5 ft.	7x 7 ft.
4x 6 ft.	8x 8 ft.
4x 8 ft.	8x12 ft.
5x 5 ft.	8x14 ft.
5x 9 ft.	9x 9 ft.
5x10 ft.	10x10 ft.

## Construction of Badger Skylights

All Badger Skylights are made of No. 26 Gauge Extra Heavy Coated Galvanized Sheets, and have proper ventilation and condensation Gutter. Are absolutely snow and water tight. Frames are made to fit over wood curb. They are furnished with either  $\frac{3}{16}$  inch Plain Ribbed or  $\frac{1}{4}$  inch Wire Ribbed Glass, which is cut to size and shipped separately. Can also be constructed of Galvanized Toncan Iron, or Copper. Wood Curb or putty is not furnished. Sizes listed are from out to out of curb and will give an idea as to what we can make, but we can build any size that is required. In giving measurements give distance from out to out of curb.





## "Badger" Galvanized Lintel Cornices and Belt Mouldings

Made from Galvanized Steel, Galvanized Toncan Iron and Pure Copper.

List prices apply to Galvanized Steel.



No. 78

Height  $4\frac{1}{4}$  in.; projection  $3\frac{1}{2}$  in.; girt 12 in.  
List price per linear foot.....\$0.15



No. 79

Height  $4\frac{1}{4}$  in.; projection  $3\frac{1}{2}$  in.; girt 12 in.  
List price per linear foot.....\$0.15



No. 80

Height 4 in.; projection  $3\frac{3}{4}$  in.; girt 14 in.  
List price per linear foot .....\$0.18



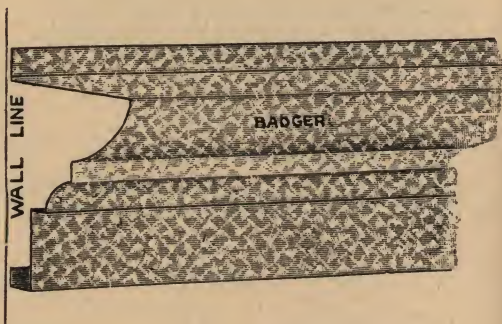
No. 82

Height 7 in.; projection  $4\frac{1}{2}$  in.; girt 16 in.  
List price per linear foot.....\$0.20



No. 87

Height 8 in.; projection 6 in.; girt 20 in.  
List price per linear foot .....\$0.28



No. 90

Height 11 in.; projection 7 in.; girt 24 in.  
List price per linear foot.....\$0.32

### HOW TO ORDER CORNICES

Give measurement of wall at foot of Cornice with diagram showing plan of wall at same place. Give number of mitres; if any other than square give exact angle. State finish desired at end, whether return, double return or end blocks, also whether Cornice is to be built into wall or put on after wall is complete, and whether for frame, brick or rock face stone building—we construct Cornice to suit.

Send in your specifications and drawings with all information requested above. We will quote prices.





## “Badger” Galvanized Cornices

Made from Galvanized Steel, Galvanized Toncan Iron and Pure Copper.  
Covering for Cornices not furnished unless specially ordered.  
List prices apply to Galvanized Steel.



No. 300

Height 18 in.; projection 8 in. List price per foot \$0.75  
End Blocks, 12 in. face.....each 4.45



No. 301

Height 20 in.; projection 10 in. List price per foot \$1.00  
End Blocks, 12 in. face.....each 4.35



No. 302

Height 24 in.; projection 12 in. List price per foot \$1.20  
End Blocks, 12 in. face.....each 4.25

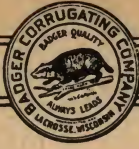


No. 364

Height 26 in.; projection 12 in. List price per foot \$0.80  
End Blocks, 12 in. face.....each 5.00  
Urns, 15 in. high.....each 1.00  
Letters, 6x8 inch.....each 0.80

We make up special Cornice designs to order.  
Send in your drawings and let us quote you prices.





## "Badger" Galvanized Cornices

Made from Galvanized Steel, Galvanized Toncan Iron and Pure Copper.  
Covering for Cornices not furnished unless specially ordered.

List prices apply to Galvanized Steel



No. 303

Height 26 in.; projection 12 in. List price per foot \$1.30  
End Blocks, 12 in. face.....each 4.75



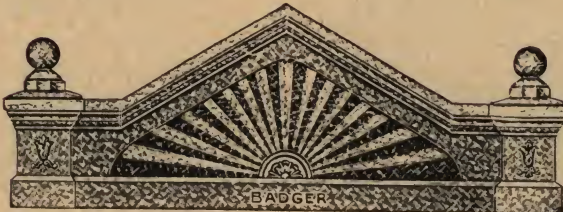
No. 304

Height 28 in.; projection 14 in. List price per foot \$1.50  
End Blocks, 12 in. face.....each 4.75



No. 306

Height 30 in.; projection 15 in. List price per foot \$1.40  
End Blocks, 12 in. face.....each 5.00



No. 361—Pediment

Length 9 feet; height in center 3 feet 2 inches.

List Price.....\$36.00 each

Urns—List Price..... 1.50 each

We make all styles and sizes of cornices from any drawings furnished. Send in your specifications.





# Practical Ventilation of Farm Buildings

**W**ITH the advancement of all lines of science, the Badger Corrugating Company has come to the fore in the development of scientific and efficient ventilation. To reap anything like the greatest return from your live stock, buildings should be modern, well equipped, and particularly well ventilated. Whether it be a barn, stable, hog house, sheep pen or poultry house, fresh air and sunlight must be provided for well being to animals and to earn maximum profits.

## Why a Barn Should Be Ventilated

Barn ventilation is necessary for many reasons: 1st—To remove dust in the air, impurities from the skin, vapors and odors arising from the manures; 2nd—To carry off the carbonic acid gas breathed from the lungs of the animals, and to replace it with pure outside air; 3rd—To keep down the amount of moisture in the air in the barn; 4th—To regulate the temperature of the stable and to remove germs. If one animal in a stable has tuberculosis, the chances are strongly in favor of other animals contracting the disease, unless the stable be flooded with sunlight and fresh, constantly changing air, and kept well cleaned.

It is scarcely necessary, in these enlightened days, to spend time defending the principle of ventilation, as the absolute need of pure air in barns of all kinds is today conceded by practically every stockman. Air, water and food are the three great essentials of life. All are vitally important to the maintenance of life, but of these three there stands out ahead of the rest "AIR," it being by far the most important. A cow can live thirty days without food, eight days without water, but only a few minutes without air, and she consumes twice the weight of pure air that she does of food and water combined.

You're particular to give your stock only good, wholesome feed and fresh clean water—why poison their systems and devitalize their energy with the foul, poisonous air of an unventilated barn? Yet how often have you noticed, upon opening a stable door on a cold morning, that a cloud of steam poured out. This is a sure sign of improper ventilation, and that these helpless cows and horses were forced to breathe, again and again, air that was heavy with poisonous carbonic acid gas.

## The Well Ventilated Building for Greater Profits

It is usually possible for live stock to exist in barn or house that depends on "luck" for ventilation. It is certainly poor business, however, to use up feeds, time and energy when you know you are not getting the greatest possible return.

A poorly ventilated building contributes in many ways to a lessened return from live stock. Stock will either lose weight or cannot be made to gain when kept continually in buildings that are not properly aired. Milk production will be lowered and foul air tends to weaken the stock to the ravages of tuberculosis or the spread of other diseases.





The evil effects of poor ventilation in barns, stables and pens cannot be overestimated; but its value can be measured in dollars and cents. Since air is the most important element in maintaining life and energy—since a cow consumes twice the weight of air that she does of food and water combined—and since air costs absolutely nothing, the owner of cows can afford to study this matter carefully, and make certain that his animals are being fed all the oxygen they need. What we have said about cows, applies just as surely to horses, sheep, hogs and poultry.

In the following pages we fully illustrate and describe the Badger Cupola and other Ventilators. The Badger Cupola is the first and most important unit in the Badger Ventilating System. We urge that complete systems be installed, but should this be impossible the next best thing to do is to install the proper size Badger Cupolas on your buildings, at once. This will at least ventilate the upper part of your barn and haymow, thus insuring clean sweet hay and a dry roof. The balance of the system can be installed at any time, whether buildings are new or old.

## The Badger Cupola Combines Best Materials and Construction

**I**N DESIGNING the Badger Cupola, the primary object was to combine the very best of materials with very careful craftsmanship, making a durable and absolutely rust-proof cupola.

The Badger Cupola is made of special extra heavy coated rust-resisting galvanized sheets, which are held firmly together by pure copper rivets and burrs, reinforced with galvanized rods and braces. The use of galvanized bolts and screen, further effects a completely rust-proof construction. Therefore, we can truthfully say, "The Badger is everlasting."

The pure copper rivets and burrs are an important feature in Badger construction, as they will not rust. Common rivets are only coated with tin, and when hammered, the inside of the rivet is exposed and will immediately rust. Rain will soon carry the rust to other parts of the cupola, thus spoiling its appearance. These pure copper rivets and burrs cost many times more than the common rivets, but they are the only rivets we can find complying with the high standard set for Badger construction.

The Badger is absolutely bird-proof. We use  $\frac{3}{4}$ -inch mesh heavy galvanized poultry netting for screening all openings.

A specially prepared imported silver aluminum gloss is used in finishing all Badger Cupolas and Ventilators illustrated in this Catalog with exception of a few of the less expensive styles. This finish is very attractive and is guaranteed to hold its brightness for years.

The Badger Cupola has many advantages over the old wooden cupola. The old wooden cupola will split, rot and warp, requiring frequent painting and repairs, and is lacking in those much needed qualities which a safe practical cupola must possess to insure a water-tight, wind-proof, lightning-proof and fire-resisting cupola of positive permanence. The Badger Cupola will absolutely eliminate the expensive deterioration and objectionable limitations of the wooden cupola and actually cost less by comparison. The first cost is the only cost—no repair bills.

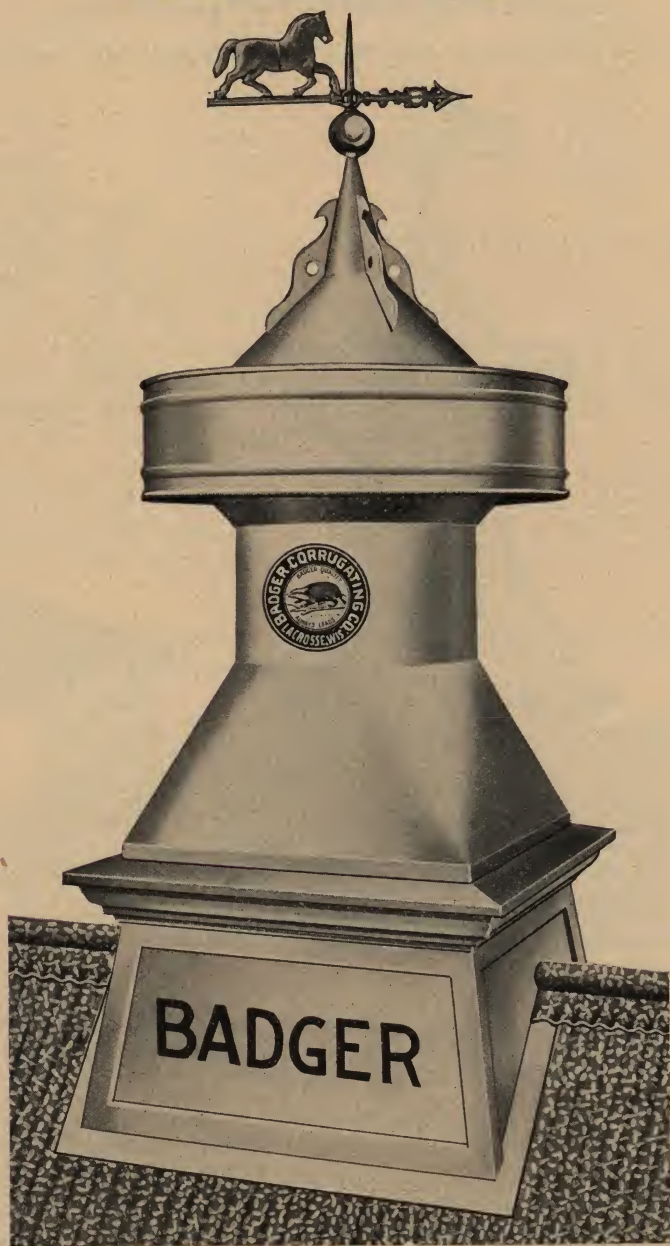
The Badger is a handsome addition to your building or barn. It has an accurate and correctly balanced weather vane covered with silver aluminum. It requires no attention because it never gets out of order. Being automatic in operation, it works day and night. Storms cannot affect it, and winds, snow or rain cannot blow into it. The Badger is built to satisfy men who know what a good cupola is.



## The Badger Cupola

Flaring Base—All Steel Construction

For sizes and prices refer to page 75



The above illustration shows the exact style and finish of Badger Cupolas. The silver aluminum gloss makes the most attractive and most permanent finish ever known. This Cupola can also be furnished for Round and Octagon Buildings—prices on application.



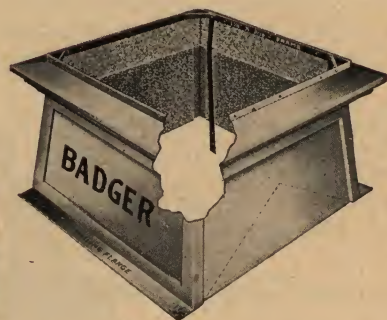
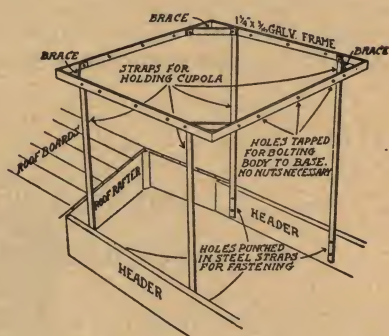
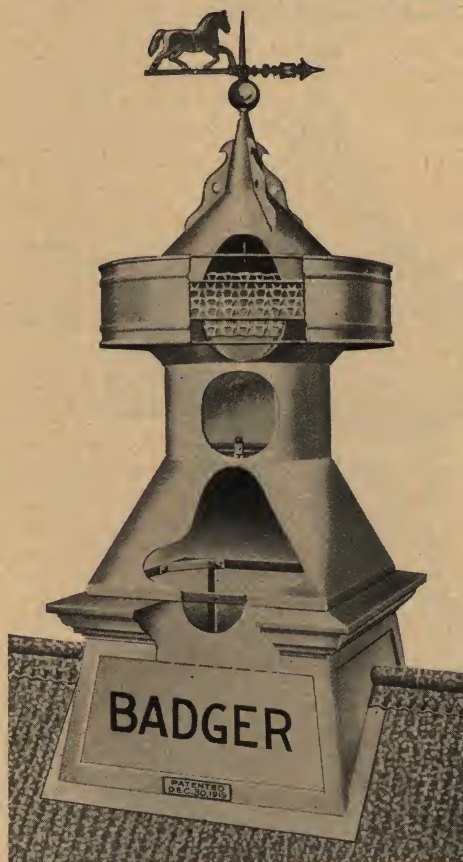


## The Badger Cupola

ALL STEEL ONE-PIECE BASE

Simplicity—Durability—Uniform Strength

Built to Last Forever. No Wood Parts to Split, Rot and Warp



Broken view of Badger Cupola showing the scientific principles of construction, manner of screening to keep out birds,  $\frac{1}{4}$  inch galvanized rod re-inforcements on storm band, body and cone roof, and cross bracing to stiffen body.

The Badger Cupola All Steel One-Piece Base is built complete, ready to put onto the building. No framing of any kind is required on the roof before it is put up.

This all steel one-piece base construction is the strongest, most durable and quickest erecting cupola base on the market. Consisting, as it does, of all steel construction, we guarantee it to resist any weather conditions, to be practically everlasting, and much lighter and more durable than wood frame construction, which will split, rot and warp, requiring frequent repairs. In the erection of this all steel one-piece base, the only tools that are necessary are a hammer and screw-driver. Our simple construction, eliminating all possibility of error, enables the erection at a great saving of labor, thereby greatly reducing the ultimate cost of the cupola.





## Sizes and Prices of Badger Cupolas

### Flaring Base—All Steel Construction

Illustrated pages 73 & 74

No.	Ventilating Flue	Base Moulding	Actual Base	Approximate Shipping Wt.	List Price
13	13 inches	27x27	24x24	90 lbs.	\$35.00
16	16 inches	32x32	28x28	100 lbs.	42.00
20	20 inches	39x39	35x35	150 lbs.	47.00
24	24 inches	46x46	42x42	200 lbs.	54.00
28	28 inches	50x50	47x47	225 lbs.	60.00
30	30 inches	54x54	52x52	275 lbs.	67.50
36	36 inches	63x63	62x62	375 lbs.	94.50

No. 40, 44 and 48 inch flue Badger Cupolas are also built—prices on application.  
For lightning rod attachment see page 77.

### WEATHER VANES

All Badger Cupolas illustrated with weather vanes are so furnished without extra charge. Horse, Cow, Bull, Sheep, Rooster, Hog, Automobile, Arrow Point, Holstein Cow or Bull—all vanes finished in silver aluminum—please specify design wanted.

### LETTERING CUPOLA BASES

The panel construction of the Badger Cupola base affords an excellent opportunity to display the name of farm or owner. Name stenciled in black letters \$3.00 list extra. Name in 2x6 inch galvanized block letters finished with silver aluminum to match Cupola \$1.50 list per letter. These prices apply to one side of base.

### DAMPERS

Swing Dampers can be furnished at following list prices with all Cupolas and Ventilators except Revolving and Brooder House styles.

Diameter Flue

Inches	10	12	13	14	16	18	20	24	28	30	36
List Price each	\$2.00	2.40	2.60	2.80	3.20	3.60	4.00	4.80	5.60	6.00	7.20

### PROPER SIZE BADGER CUPOLA TO USE

When making your selection of Badger Cupolas, you should be very careful in getting the proper sizes. Do not overlook the fact that the Badger Cupola is everlasting and that you will buy but once. If there is any doubt regarding size after going over the table given below, send us diagram with measurements of your building and we will help you.

**For Ordinary Barn**  
32 to 36 ft. Wide

Length	Number
40 to 50 ft.	1 28" Flue
60 to 70 ft.	2 28" Flue
80 to 100 ft.	3 28" or 30" Flue
110 to 130 ft.	4 30" Flue
140 to 160 ft.	5 30" Flue

For barns 30 feet wide or less use the smaller sizes.  
For barns over 36 feet wide use the larger sizes.

**For Hog Houses**  
16 to 20 feet Wide

Length	Number
24 to 50 ft.	2 16" Flue
52 to 68 ft.	2 20" Flue
70 to 90 ft.	3 20" Flue

**22 to 26 feet wide**

24 to 30 ft.	2 16" Flue
32 to 50 ft.	2 20" Flue
52 to 70 ft.	3 20" Flue
72 to 90 ft.	4 20" Flue

**28 to 32 feet wide**

Use 24" Flue instead of 20" Flue Badger Cupolas.

**For Poultry Houses**

12 to 16 feet wide—1 16" Flue  
For each 12 feet in length.

18 feet wide—1 20" Flue  
For each 12 feet in length.





## No. 100 Series

**Badger Cupolas****Without Flaring Base****Without Vane and Glass Ball****With Vane and Glass Ball**

These are the same as the Badger Cupola illustrated page 67 but without the Flaring Base. For construction details turn to page 74. We recommend No. 100 Series where cost is important—it fills the demand for a good Cupola at a price, and is a good value for the money.

**Sizes and Prices**

No.	Ventilating Flue	Size Base	Approximate Shipping Wt.	Without Vane & Ball	With Vane & Ball
113	13 inches	21x21 inches	50 lbs.	\$24.00	\$26.50
116	16 inches	24x24 inches	65 lbs.	29.00	31.50
120	20 inches	29x29 inches	80 lbs.	32.00	35.00
124	24 inches	36x36 inches	110 lbs.	37.50	40.50
128	28 inches	40x40 inches	140 lbs.	42.00	45.00
130	30 inches	44x44 inches	165 lbs.	47.50	50.50
136	36 inches	53x53 inches	210 lbs.	68.00	71.00

When ordered for side roof base must be cut to fit roof at factory—an extra charge is made for this—write for particulars giving pitch of roof.

When ordered for peak roof base will be cut without extra charge to fit roof if exact pitch is given.

For proper sizes recommended to use, see list on page 75.

For lightning rod attachment, see page 77.

For list of weather vanes, see page 75.



## "BADGER" SPECIAL BARN VENTILATOR

Our Badger SPECIAL Barn Ventilator is substantially made, being constructed of the same high grade material as our Badger Cupola and finished in silver aluminum. It, however, does not have the rod reinforcements on wind band and cone roof—neither the extra heavy bar iron frame inside of base. The base, however, is made up complete with four band iron straps for fastening to roof rafters.

It is built in only two popular sizes with square base and sold at prices that will enable you to meet any competition.

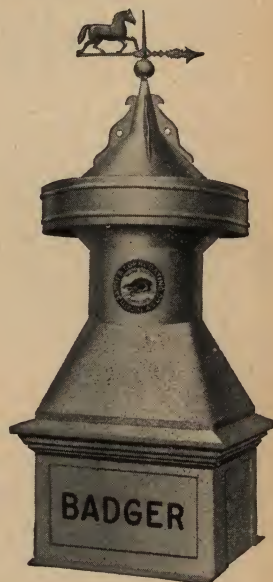
### Sizes and Prices

No.	Ventilating Flue	Base Mold	Base at Roof	Approx. Weight	Price
S 240	24 inches	46x46 inches	35x35 inches	175 lbs.	\$51.00
S 280	28 inches	50x50 inches	39x39 inches	200 lbs.	57.00

For lightning rod attachment see below.

For proper sizes recommended to use, see list page 75.

For list of weather vanes, see page 75.



## Lightning Rod Attachment Built In Badger Cupolas



We furnish  $\frac{5}{8}$ -inch pure soft copper tube, running down from the copper seamless nickel-plated lightning rod point (this point is furnished with every cupola) to the bottom of the cone roof, where we use a pure copper tee connection.

As this lightning rod attachment is built into the cupola at time of its construction, it is necessary to state on orders that lightning rod attachment is wanted.

When you equip your building with lightning rods, all that is necessary is to run the cable along the peak of the roof, under the cupola, and connect with the tee coupling which we provide at the end of the copper tube.

Our method of rodding consists of taking the most direct course to the ground and we believe by following this plan you will get the best results.

Extra charge for this pure soft copper tube and tee connection, built in cupola as shown in illustration, is only \$1.50





## Let Us Help You Plan Your Ventilating System

**F**OR the benefit of our customers we maintain a special Plan Department, which will co-operate with you upon request, and render you every possible assistance in working out the best possible plans for ventilating your buildings. This service has proved very helpful and valuable to hundreds of our customers, and we invite **you** to take advantage of it.

Our Plan Department will not only help you work out the right plans for a complete ventilating system, but will also gladly advise you regarding the right size Badger Cupola for your barn or other buildings, and answer all questions you may wish to ask regarding any of the goods listed in this catalog.

If you wish to avail yourself of the services of our Ventilating and Plan Department, please give us all the information requested below. This is absolutely necessary to enable us to intelligently prepare a plan suitable for your buildings. Each and every system is built to fit the conditions of the building where it is to be used—no two are exactly alike. Therefore, it stands to reason that the clearer and more complete information sent us, the better and more able we are to plan your system accurately.

- 1—Length of barn.
- 2—Width of barn.
- 3—Height from barn to haymow joists.
- 4—Height from haymow floor to plate at eaves.
- 5—Style of roof and length of rafters.
- 6—Style of construction and bracing.
- 7—Is it a basement barn and are all sides clear?
- 8—Give thickness of walls and of what made.
- 9—Is there a driveway in haymow? Give location.
- 10—How far is hay track below bottom of rafters.
- 11—Number of horses, cows, etc., barn will hold when filled to capacity.
- 12—Prepare a rough sketch of floor plan showing size and position of stalls, Stanchions, mangers, alleys, windows, doors, etc.





## BADGER VENTILATING SYSTEM *for* CREAMERIES



### Badger Cupolas are Ideal for Creameries

Nowhere is fresh, dry air more important than in a creamery. Badger Cupolas and Ventilating Systems are perfectly adapted to creamery ventilation—and hundreds of them are used for this purpose.





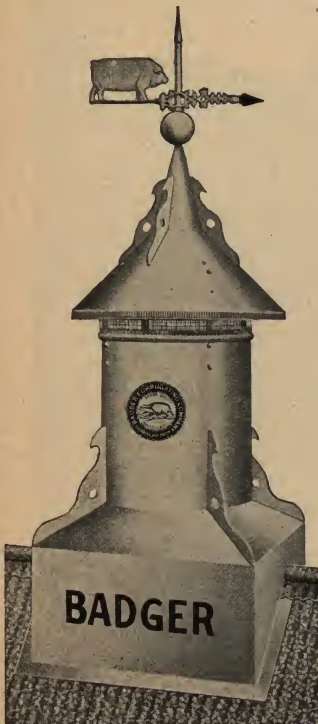
## Badger Revolving Ventilators

Badger Revolving Ventilators are made from best grade Extra Heavy Coated Galvanized Sheets. They have an unequalled capacity and a constant and dependable ventilating action, the revolving head being larger than the flue allows the entire exhaust capacity of the Ventilator to be utilized. They are well braced and screened to keep out birds and finished in silver aluminum. Especially built for Hog House, Chicken Coop and Tobacco Shed Ventilation.



### Sizes and List Prices

No.	Diam. Flue	Base	Complete with Flaring Square Base	Revolving Vent Head Only
RV-12	12 inches	18x18 inches	11.20	\$ 9.20
RV-16	16 inches	22x22 inches	22.00	19.00
RV-18	18 inches	24x24 inches	30.00	26.00



## Style T Ventilators

This is a special Cupola built in small size and designed for use on hog and hen houses and other small buildings. It does not have the special construction that causes a draft as in the Badger Cupola but it is very satisfactory in cases of minor ventilation.

STYLE T, the same as all our Cupolas, is made of Extra Heavy coated galvanized sheets, finished with silver aluminum, well made and handsome. It is easy to put up and gives a small building a finished appearance.

No.	Flue	Base	List Price
T-12	12	20x20	\$14.00
T-16	16	24x24	18.00
T-18	18	27x27	22.50
T-20	20	30x30	27.00

Furnished with either Hog or Rooster Vane.



## "BADGER"

# KLEENAIRE ROTARY TURBINE VENTILATOR

Precision Built

Sturdy Construction

Low Cost

Efficient

*Construction of heavy  
gauge metals for  
indefinite service*

*Ball Bearings*

*No Fuss - No Bother*

*No Oil Leakage*



*Constant Exhaust*

*Silent Operation*

*No Power*

*Consumption*

*No Down Draft*

*Weather Proof*

### ★ KLEENAIRE ★

The KLEENAIRE Rotary Turbine Ventilator is truly a most effective device for expelling a constant definite volume of air from the building it is applied to. Due to its scientific blade construction and low friction bearings, the KLEENAIRE Turbine Ventilator, rotates at a high speed, with even the slightest breeze. All bearings run in oil. The first cost is the last cost. No operating expense. Air, whether hot or cold, dust or gas laden does not retard the efficiency of the centrifugal forces created by the precision built blades. Down drafts are mechanically impossible. Technical advice gladly furnished on request.

#### PRICE LIST

Dia. Throat	Galva- nized Steel	Exhaust Cap Copper	†C.F.Air per Hour	Approx. Shipping Weight
*6"	\$ 8.00	\$ 12.00	10,000	12 lbs.
*8"	9.50	13.00	17,300	17
*9"	10.00	14.50	21,500	20
*10"	11.50	16.00	26,500	24
*12"	14.00	20.00	38,600	30
*14"	18.00	25.00	49,000	34
*16"	22.00	30.00	64,000	46
*18"	26.00	37.00	85,200	63
20"	31.00	44.00	105,100	77
24"	43.00	62.00	149,000	110
30"	66.00	92.00	225,000	190
36"	83.00	120.00	281,000	240
42"	110.00	140.00	324,000	325
48"	130.00	175.00	360,000	460

†Capacity based on wind velocity of 4 miles per hour.

Galvanized ventilators painted best quality paint. Iron parts of Copper ventilators non-rusting.

\* 6, 8, 9, 10, 12, 14, 16 and 18 inch sizes in Galvanized carried in stock for immediate delivery - Prompt Factory Shipment on other sizes.

### ★ EFFICIENCY ★

The centrifugal force caused by the revolving turbine creates a partial vacuum within the ventilator, and effects a high displacement of air from the area to be ventilated. There is no guess-work, no question of doubt as to its efficiency. Its displacement ability is positive, constant, dependable and guaranteed.

Reference to the schedule of cubic feet capacities of each size ventilator, will quickly enable one to determine the definite air displacement and the number of air changes per hour in any size building.

Ventilation is not only necessary to health, it is highly desirable in that it adds greatly to the comfort of the occupants and their well being.

*Kleenaire Ventilators are approved for public buildings by the  
Industrial Commission, State of Wisconsin*





## Perfect Ventilators



Style JV

STYLE JV

No.	Flue	List Price Including Weather Vane
JV-10	10 inch	\$16.40
JV-12	12 inch	17.60
JV-14	14 inch	19.00
JV-16	16 inch	22.80
JV-18	18 inch	29.00
JV-20	20 inch	35.60
JV-24	24 inch	40.70

For list of Weather Vanes see page 75.

Perfect Ventilators are constructed of Extra Heavy Coated Galvanized Sheets and, like Badger Cupolas, are quality goods that will give you perfect satisfaction and long service. All finished in silver aluminum.

Style H can also be furnished with  $\frac{1}{4}$ " Wire Glass Top in place of Galvanized—write for prices.



Style H

STYLE H

No.	Flue	List Price Head Only
H-6	6 inch	\$ 5.00
H-8	8 inch	5.70
H-10	10 inch	6.70
H-12	12 inch	7.50
H-14	14 inch	8.50
H-16	16 inch	11.50
H-18	18 inch	14.00
H-20	20 inch	19.00
H-24	24 inch	22.00
H-30	30 inch	33.00
H-36	36 inch	48.00
H-40	40 inch	66.00
H-42	42 inch	72.00
H-48	48 inch	90.00
H-54	54 inch	108.00
H-60	60 inch	124.00
H-72	72 inch	155.00

### Ventilator Bases for Badger and Perfect Ventilators.



Roof Saddle



Taper Base



Square Base



Roof Flange

For list price of bases see page 83.

When ordering Roof Saddles or Roof Flanges give exact pitch of Roof. Taper and Square Bases will be cut to fit roof if pitch is given—can be used for single or double pitch or flat roofs - specify style when ordering.



## Badger Syphon Ventilator



Style A

Badger Syphon Ventilators are constructed of extra heavy coated galvanized sheets and are of the highest efficiency. Its design utilizes every wind current to create a powerful suction through the stack, and insures constant, positive and uniform ventilation. There are no moveable parts and no down drafts. It constantly removes about 40% more air than common or regular type of ventilator as shown in numerous tests. It is exceptionally weather-proof and sturdy in construction and will withstand the severest wind pressure. Can also be furnished with  $\frac{1}{4}$ " Wire Glass Top in place of Galvanized Top. Finished in silver aluminum if wanted.

Also built of pure iron or copper—prices on request.

Ventilator Bases illustrated page 82.

No.	Flue Dia.	*Exhaust Capacity C. F. Air per hour	List Price Head only	List Price of Square Base	List Price of Taper Base	List Price of Roof Saddle	List Price of Roof Flange	List Price of Swing Dampers
A 6	6	5460	\$7.60	\$4.20	\$5.00	\$3.70	\$3.70	\$1.20
A 8	8	9750	8.00	4.20	5.00	3.70	3.70	1.60
A 10	10	14850	8.40	4.70	6.00	4.70	4.70	2.00
A 12	12	21840	9.20	5.10	6.50	5.10	5.10	2.40
A 14	14	29960	10.50	5.50	7.00	5.50	5.50	2.80
A 16	16	39000	12.60	6.30	8.00	6.30	6.30	3.20
A 18	18	48850	15.80	10.00	11.00	7.40	7.40	3.60
A 20	20	61210	21.00	11.60	12.00	9.00	9.00	4.00
A 24	24	86640	26.80	13.70	15.00	10.50	10.50	4.80
A 30	30	135100	45.20	16.80	20.00	13.10	13.10	6.00
A 36	36	194820	66.20	22.00	30.00	18.90	18.90	7.20
A 40	40	244840	90.00	33.60	40.00	31.50	31.50	8.00
A 42	42	269100	100.00	38.00	50.00	35.00	35.00	8.40
A 48	48	346560	129.20	47.30	60.00	42.00	42.00	9.60
A 54	54	459000	150.00	70.00	85.00	52.00	52.00	10.80
A 60	60	561000	170.00	80.00	95.00	65.00	65.00	12.00
A 72	72	810000	210.00	100.00	120.00	80.00	80.00	14.40

\*Capacity based on wind velocity of 5 miles per hour.

*Approved for Public Buildings by the Industrial Commission, State of Wisconsin.*





## Bird-Proof Galvanized Ventilators

Silver Aluminum Finish



Style L  
Side Roof Flange



Style O  
Round Roof Flange Silo  
Ventilators



Style M  
Peak Roof Flange

### Sizes and List Prices

#### STYLES L, M AND O

Drum	Height	List Price
8-inch	18-inch	\$4.50
10-inch	24-inch	5.20
12-inch	24-inch	6.50
14-inch	28-inch	7.80
16-inch	32-inch	9.00
18-inch	36-inch	11.00
20-inch	40-inch	13.00
24-inch	44-inch	18.00

#### STYLE K

#### Sizes and List Prices

Drum	Height	List Price
8-inch	18-inch	\$6.30
10-inch	24-inch	7.20
12-inch	24-inch	8.90
14-inch	28-inch	10.30
16-inch	32-inch	11.60
18-inch	36-inch	13.80
20-inch	40-inch	16.20
24-inch	44-inch	21.60



Style K

Any of the above ventilators can be furnished in any height, price in accordance. When ordering Styles L, M and O it is absolutely necessary to give exact pitch of roof. When ordering Style K base will be cut to fit roof if exact pitch is given.

Always Order by Number, Where Given





## "BADGER" Brooder House Cupolas



No. BHS



No. BHL



No. BHO

Badger Brooder House Cupolas are made from Extra Heavy Coated Galvanized Sheets, and finished in silver aluminum. Properly termed they are double duty Cupolas, offering a regular Cupola head plus a separate outlet for the stove pipe attachment which leads to the heater in the brooder house. All sizes and styles are made with a 5 inch removable smoke cap for extension of five inch diameter smoke pipe, also equipped with an extra loose collar having a 4 inch hole in same, so either 4 inch or 5 inch smoke pipe can be used.

### Sizes and Prices

No.	Flue	List Price	No.	Flue	List Price
BHS-8	8 inches	\$10.00	BHL-10	10 inches	\$6.00
BHS-10	10 inches	11.50	BHO-8	8 inches	5.00
BHL-8	8 inches	5.00	BHO-10	10 inches	6.00

When ordering **Styles BHL and BHO** it is absolutely necessary to give exact pitch of roof. When ordering **Style BHS** base will be cut to fit roof if exact pitch is given.

## Smoke Pipe and Elbows for Brooder Stoves

Made of No. 28 gauge Galvanized—smoke pipe packed nested 25 lengths to a bundle. Locks formed but not seamed—easily put together. Actual length of joint 24 inches. Elbows wired in bundles of one dozen. We do not break bundles.

### List Prices—Elbows, Each—Pipe per Joint

Size	4 Pc.	1 Pc. Plain	Smoke Pipe
4 1/2 inch	Adj. Elbows \$ .78	Round Elbows \$ .60	\$ .64
5 inch	.90	1.25	.76

## "BADGER" Tobacco Shed Ventilator

Made from best grade Extra Heavy Coated Galvanized Sheets. Price does not permit aluminum finish—these are made to sell at a price but are a good quality and will give results. Built in one size only with 1/3 pitch peak roof flange and packed 6 or 12 to a carton.

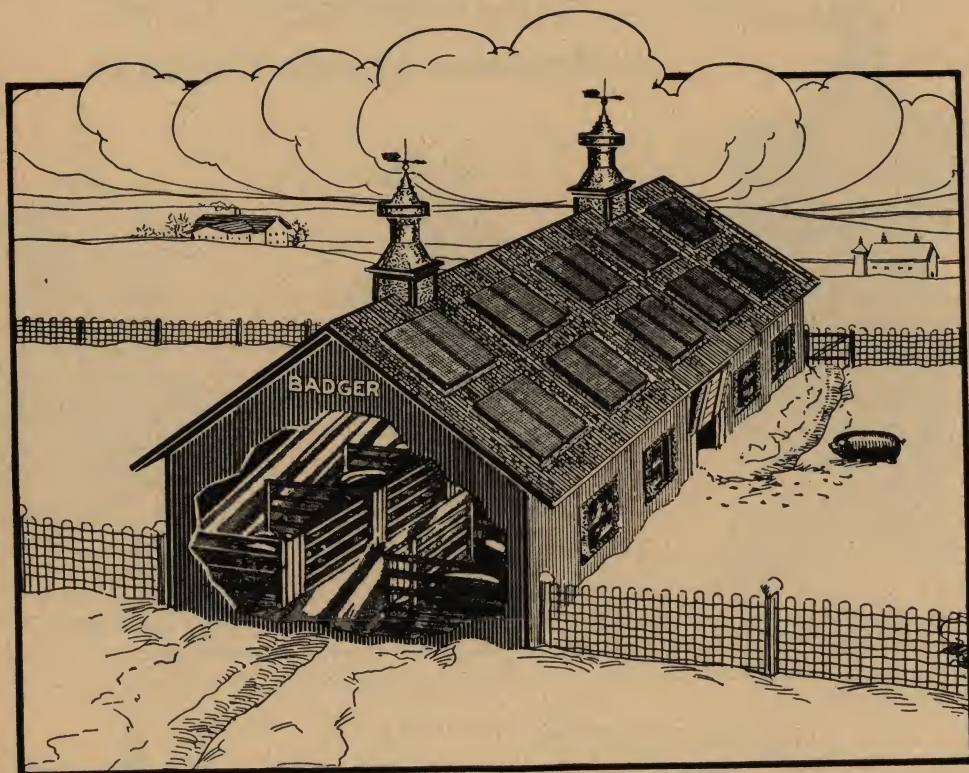
No.	Flue	List Price
TS8	8 inches	\$2.50

If special pitch or less than 6 regular ventilators are ordered an extra charge is made.



No. TS





## Modern Hog Houses

**P**ROPER housing is essential to successful swine production, and yet it is oftentimes overlooked. Dry sanitary, comfortable conditions must be provided if one wishes the best returns in the pork producing business. The hog is not as well protected with natural covering as most domestic animals. He relies mainly on the production of thick layers of fat which provide considerable protection. All hogs are not so fortunate, however, as to be fat, hence they must depend upon their hair or bristle covering which is inadequate, even though abundant, in the zero days of winter. Sensible shelter, therefore, is in order because it saves feed, provides comfort, and, of course, saves money.

Swine are quite susceptible to the unfavorable influences of dampness, cold, heat and drafts. The new born pig, farrowed in January, February, or March, must be intelligently housed in warm, dry, well ventilated quarters if good returns are to be expected.

Many houses which cost enough to be good are thoroughly unfit for the purpose because the sun can not shine into the pens. Nearly every large hog house is deficient in either sunshine or ventilation, or in both.

### Badger System of Direct Sunshine and Ventilation

The skylight principle used in the construction of hog houses is rapidly gaining in favor with the up-to-date farmer. It provides a better method of harnessing sunlight, which is an important factor in sanitation. A saving of materials is also effected over the old type hog houses. Proper ventilation is also a necessity. Badger Cupolas and Ventilators will provide for fresh air in your pens in an efficient manner. The open cracks in the hog house do not add to the health or comfort of the hogs. On the contrary, they make the most disagreeable and damaging condition in which shelter could be provided. It is not this kind of fresh air that your hogs need, nor should it be administered in this way. Equip your hog houses with Badger Skylights and Cupolas, which are constructed on latest scientific principles, and take care of this sunshine and ventilation problem correctly.

The Agricultural Experiment Station, Iowa State College of Agriculture and Mechanic Arts in Bulletin No. 152, gives the following on direct sunlight and ventilation:—See page 87.





## ABUNDANCE OF LIGHT AND DIRECT SUNLIGHT

Without sunlight we can not have a profitable swine husbandry. Sunlight is the great and universal germ destroyer and kills disease-causing organisms. It promotes dryness, warmth and ventilation, thus bettering hygienic conditions. Direct sunlight gives suckling pigs vigor and strength. Direct sunlight should strike each part of the interior of the house at some time during the day; and the pens should be well sunned, especially in the farrowing months of February, March and April. The forenoon sun has unusual value, coming, as it does, immediately after a relatively long, dark and oftentimes cool and damp night, so weakening to young and suckling pigs. In the hot summer months some shade should be provided to ward off the direct sun.

### VENTILATION

The hog demands an abundance of fresh, pure air; this may be easily provided without subjecting him to injurious drafts. Summer coolness is dependent largely on good ventilation. The hog suffers much in a closely confined, ill ventilated place, because he is a productive animal that usually works at "top-speed;" especially is this true when fattening, hence he needs an abundance of untainted oxygen for his bodily functions.

### BUILDING AN UP-TO-DATE HOG HOUSE

The best results are obtained from our skylights by building your hog house east and west, so as to have a south front for the skylight sash which are built in the roof. Place the first row of skylights as near the south wall as possible, dividing the space between upper edge of lower skylights and peak of roof for proper location to place upper skylights. If your building faces north and south, place two rows of skylights in each the east and west roofs. These arrangements will flood the floor of the pens with sunlight during the early months of the year, and be a source of energy to mother hog and new born pigs. Early March litters are the practice among the most successful swine breeders, but the cold and raw spring weather is a source of danger. Good, wholesome sunlight and fresh air are also death to the cholera germ, and a hog house constructed along these principles is of unlimited value, in that each pen is daily swept by hot, direct, germ-killing rays of the sun.

## Badger Ventilating Hog House Skylights

Badger Ventilating Skylight Frames are made of the very best grade Extra Heavy Coated Galvanized Sheets. They extend 3½ inches above the roof and are made for two 10x28 inch lights of glass (made in two-light only). One-piece bar construction with condensation gutter. No putty used. Glass slides in from lower end, and is held solid at top and sides by cap, which is part of our one-piece bar. Lower edge of glass is held by clips. The arrangement for opening and closing the Skylight is so constructed as to allow this to be done from the inside of the hog house, and is entirely built of rust resisting extra heavy galvanized bar iron so that the skylight when open is absolutely rigid and cannot even vibrate. Ventilating Skylights are 20 x 28 inches, with 4 inch flashing all around, making extreme measurements 28 x 36 inches. Packed 6 and 12 in a crate.

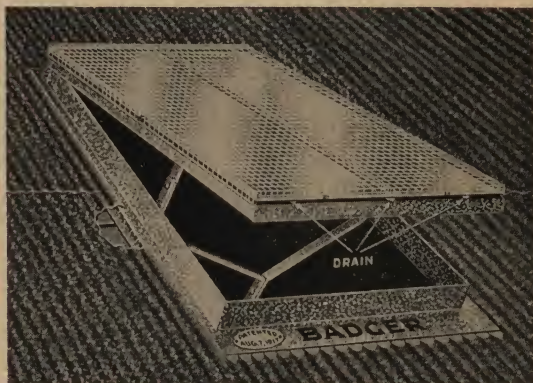


Illustration shows skylight frame covered with heavy ½ inch mesh, galvanized screen—this is furnished only when ordered and is only required with double strength glass.

### Price List

No.	
V-40—Skylight frame—without glass and screen, each.....	\$5.50
V-41—Skylight frame—without glass but with screen, each.....	6.00
10x28 inch Plain Ribbed Glass, each.....	.70
10x28 inch Wire Ribbed Glass, each.....	1.00
10x28 inch Double Strength Glass—can also be furnished, but this can usually be bought locally to better advantage.	





## "BADGER" Stationary Hog House Skylights



"TWO-LIGHT"

Badger Stationary Two-Light Skylight Frames are constructed of the very best grade extra heavy coated galvanized sheets. They extend  $1\frac{3}{4}$  in. above roof and are made for two 10x28-inch lights of glass. Our one-piece bar construction, with condensation gutter under shoulder, which holds edge of the glass, permits water to run off and makes a leak-proof skylight. No putty is necessary, as the glass slides in from the lower end, and is held solid at top and sides by a cap, which is part of our one-piece bar. At lower edge clips are provided for fastening. These clips are soft and pliable and can be bent easily if it becomes necessary to replace a glass.

Stationary Skylights are 20x28 inches, with 4-inch flashing all around, making extreme measurements 28x36 inches. Packed 6 and 12 in a crate.

Skylight illustrated is covered with a heavy  $\frac{1}{2}$  inch mesh Galvanized screen. This is furnished only when ordered and is required only with double strength glass.

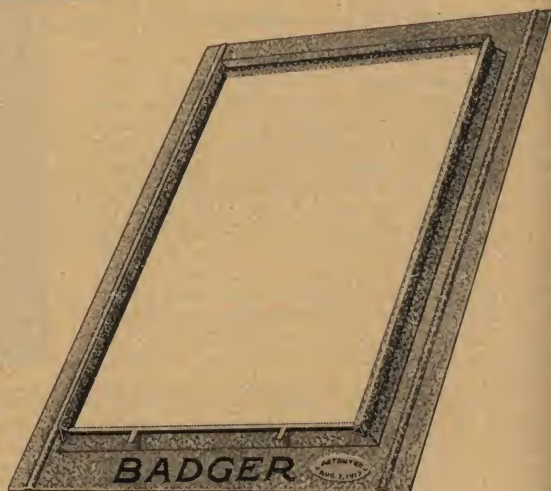
### Price List

No. S-30—Skylight Frame without glass and screen, each.....	\$4.00
No. S-31—Skylight Frame without glass but with screen, each.....	4.50
10x28 inch Plain Ribbed Glass, each.....	.70
10x28 inch Wire Ribbed Glass, each.....	1.00
10x28 inch Double Strength Glass—can also be furnished, but this can usually be bought locally to better advantage.	

### "ONE-LIGHT"

Badger Stationary One-Light Skylight Frames are made of the same high-grade materials as used in the two-light style. They extend  $1\frac{3}{4}$  inches above roof and are made for one 20x28 inch light of heavy glass, which requires no screen. Our one-piece bar construction, with condensation gutter under shoulder, which holds edge of glass, permits water to run off and makes a leak-proof skylight. No putty is necessary, as the glass slides in from the lower end, and is held solid at top and sides by a cap, which is part of our one-piece bar. At lower edge clips are provided for fastening. These clips are soft and pliable and can be bent easily if replacement becomes necessary.

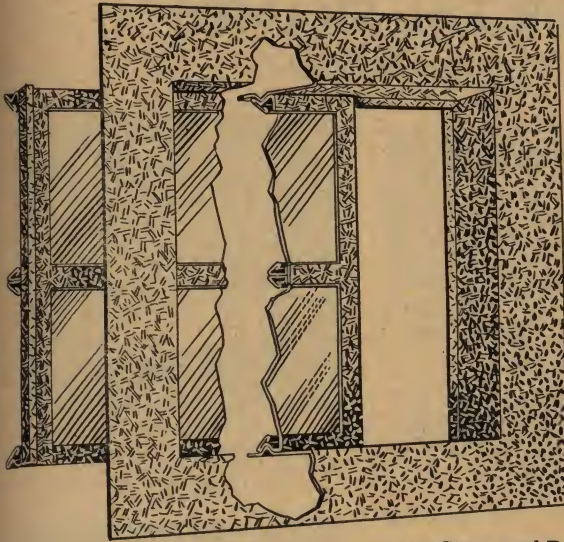
One-Light Stationary Skylights are 20x28 inches, with 4-inch flashing all around, making extreme measurements 28x36 inches. Packed 6 and 12 in a crate.



### Price List

No. S-35—Skylight Frames without glass and screen, each.....	\$3.00
20x28 inch Plain Ribbed Glass, each.....	1.40
20x28 inch Wire Ribbed Glass, each.....	2.00





## "BADGER" Sliding Windows

For Hog Houses, Barns, Stables, Chicken Houses and Other Farm Buildings

Badger Sliding Windows with casing combined, present the most economical, substantial and practical windows obtainable. Constructed entirely of rust resisting extra heavy coated galvanized sheets, they are practically everlasting, and eliminate in every way the faults found in the old wooden style. Bars are so constructed as to allow the placing of glass without the use of putty, and, owing to our special formation, are absolutely leak-proof. They can be put in new or old buildings and placed so as to slide up and down or sideways.

	Opening in Wall	2-Glass	Outside of Casing to Outside of Casing	List Price Each Without Glass
No. 10	20x22	10x20	27x29	\$3.20
No. 11	20x26	10x24	31x29	3.60
No. 12	20x30	10x28	35x29	4.10

Double strength glass can also be furnished, but this can usually be bought locally to better advantage.

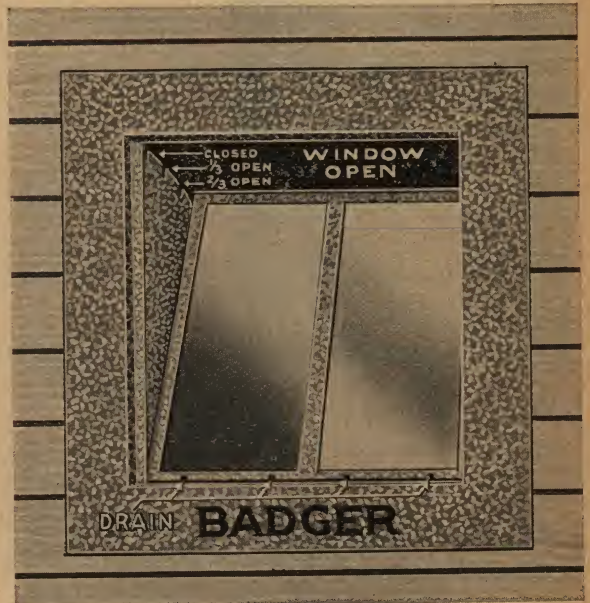
## Badger Ventilating Sidewall Window

Are built and furnished with casing complete, and entirely constructed of extra heavy coated rust resisting galvanized sheets, which will not rust, swell, rot or shrink. As a means for proper ventilation they cannot be equaled.

These windows tilt open at the top, having three open and one closed position. The air in entering must travel upwards so that there is no possibility of its blowing directly on the stock. (Note from cut the angle at which air must enter—no chance for a direct draft). The frame and casing are separate pieces so that if more air is required than can be gotten by tilting, the entire window can easily be taken out.

The construction of our bars permits the placing of glass without the use of putty, and owing to our special formation are absolutely leak-proof. They can be put in new or old buildings—only tool necessary being a hammer and nails.

Once used—always used—none better.



	Opening in Wall	2-Glass	Outside of Casing to Outside of Casing	List Price Each Without Glass
No. 20	22½x21¾	10x20	27x29	\$3.60
No. 21	22½x25¾	10x24	31x29	4.00
No. 22	22½x29¾	10x28	35x29	4.40

Double strength glass can also be furnished, but this can usually be bought locally to better advantage.





## DUO-VENT METAL FRAMES

PATENTED U. S. No. 1,936,513



**K4912**

To take 4 Lt. 9x12, 1 1/8-in. Sash  
22 x 29 inches opening



**K6912-2W**

To take 6 Lt. 9 x 12, 1 1/8-in. Sash  
22 x 41 inches opening  
Can make frame to fit any Standard Sash.

Used with regular 1 1/8-inch wood barn sash.

Shipped KD in cartons of one-half dozen. Low freight rate.

Can be set up ready for use in less than a minute.

Fastens together securely without nails, bolts, rivets or solder.

Can be set in place without falling apart.

Provides room for storm sash or screens.

Ideal for barns, hog houses, poultry houses, brooder houses, milk houses, summer cottages, etc.

Gives any type of window ventilation.

Write for information on sizes not shown.

Can be furnished for any type of standard barn sash.

Sill is provided with 1/2 inch drip.

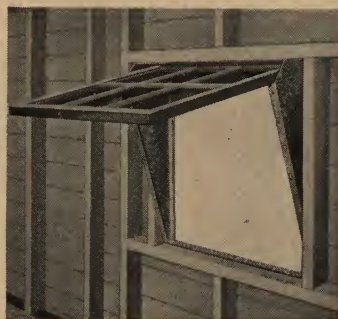


**K6912-3W**

To take 6 Lt. 9 x 12, 1 1/8-in. Sash  
31 x 29 inches opening  
Window set for indirect ventilation.



Window adjusted for top and bottom circulation.



Window wide open for full direct flow of air.

## STANDARD SIZES OF DUO-VENT METAL WINDOW FRAMES

The following schedule applies to Duo-Vent Frames only.

	Weight Carton of Six Frames	Wood Sash	Overall Size of Wood Sash
K-4912	45 lbs.	4 lt. 9x12	22x29
K-6912-3W	48 lbs.	6 lt. 9x12	31x29
K-6912-2W	54 lbs.	6 lt. 9x12	22x41



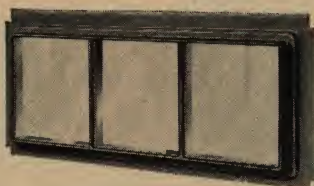


## One Piece Steel Basement Windows



**Inside View of Window  
Installed**

Home owners are pleased with the neat appearance of Steel Basement Windows, with the ease with which they may be opened and closed, with the additional light admitted. Notice notched bar for holding window at opening desired. Bar drops into frame when not in use.



**Storm Sash**

These Storm Sash are stamped in one piece from Copper Alloy Steel and are both strong and rigid. They screw to the Basement Window frame at each side through holes provided for this purpose.



**Steel Screen**

Screws tightly to each side of window frame, on outside; is quickly secured in place or removed. Screen itself is held in screen frame with same screws that hold the two halves of screen frame together.

## Durable, Weather-Proof Design

Stamped from a solid sheet and formed without a joint. A solid flange, an integral part of the frame design, projects from jambs, sill and head into the masonry for anchorage and weathering.

Special protection against driving rain is provided by sloping the sill section sharply downward and outward. This same section is rounded and also sharply sloped down ward at the corners to prevent driving rain entering. At the jambs, the inside edge of the frame is slightly turned in over the sash to help make it weatherproof.

Glazing is done from inside. The putty bed rests on a channel, formed in stamping the sash, providing a cushion that cannot get away. Sash are interchangeable in like frame sizes.

The sash lock is of the type regularly used for double hung sash, and the lever end is drilled for a chain with which to hold the window open.

Regular cotter pins are used for hinge coupling, making it easy to remove the sash and at the same time insuring against unhinging.

Weatherproofed in two ways: It keeps rain and snow out and always works without binding as it cannot swell, warp or get out of true.

### INSTRUCTIONS FOR GLAZING

In glazing Basement Windows use the specially designed Clips which are attached to the window frame.

The rabbets should be first bed-puttied and the glass then firmly set in place. Insert the Spring Glazing Clips with the crinkly side down slipping between the glass and the muntin bar or mullion with one end resting on the glass. Then force the other end down until it snaps into the hole in the mullion. Notice the two sets of holes, one for ordinary glass and the other for heavy wired glass.

			Extreme Outside	Dimensions Inside	Window Wgt.	Screen Wgt.	Storm Sash Wgt.
501	14"x20"	2 Light	23"x31½"	26"x34½"	17 lbs.	5 lbs.	7 lbs.
502	10"x12"	3 Light	15"x34"	18"x37"	15 lbs.	4 lbs.	5¼ lbs.
503	10"x20"	3 Light	23"x34"	26"x37"	18 lbs.	5½ lbs.	8 lbs.
504	12"x18"	3 Light	21"x40"	24"x43"	19 lbs.	6 lbs.	8 lbs.





Men who make a success of farming are the ones who know the value of good equipment. You'll see thousands of Badger Cupolas and Ventilating Systems on the better class of farm buildings throughout the northwest.





## Single Pitch Silo Roofs

### "Self Supporting"



No. 5

Roof with Filling Door



No. 6

Roof with Filling Door and Dormer

Badger Single Pitch Silo Roofs are **self-supporting**—no rafters or bracing of any kind required. They are all built  $\frac{1}{4}$  pitch from full weight No. 26 Gauge Extra Heavy Coated Galvanized Sheets formed into wedge shaped sheets. Galvanized Steel is lightning and fire-proof—requires no paint and is practically everlasting. Each roof is furnished with a filling door and our special silo ventilator.

#### Size and Price List

Outside Diam. of Silo	Approx. Ship. Wgt.	List Price of Roof Without-Dormer
10 feet.....	185 pounds.....	\$33.00
11 feet.....	240 pounds.....	38.00
12 feet.....	245 pounds.....	41.00
13 feet.....	300 pounds.....	44.00
14 feet.....	310 pounds.....	55.00
15 feet.....	380 pounds.....	61.00
16 feet.....	400 pounds.....	68.00
18 feet.....	540 pounds.....	90.00
20 feet.....	700 pounds.....	114.00



When ordering Single Pitch Silo Roofs always state what material silo is constructed of and give outside diameter and thickness of walls.

#### No. 6 SMALL DORMER WINDOW FOR ANY SIZE ROOF

Without Sash and glass, each.....	\$9.00
With sash and glass, each.....	13.85
Extra Filling Doors, each.....	3.10

Above prices do not include wood curb or clamps for Masonry Silos. It is not practical to furnish large dormer window for Badger Single Pitch Silo Roofs. Dormers always shipped set-up complete—saving time of assembling on job. Instruction sheet for erecting furnished with each Badger Single Pitch Silo Roof.

## "BADGER"

### Corrugated Silo Chutes

Badger Galvanized Corrugated Silo Chutes are the strongest and most rigid chutes on the market. Built from  $1\frac{1}{4}$  inch Extra Heavy Coated Galvanized Corrugated Sheets and are furnished in any length of even feet. They are 27 inches deep in center and 30 inches wide at back with 1 inch flange on each side for fastening—are shipped knocked down, each piece being 26 inches long, covering 24 inches. Selling measurement is 24 inches.

When so desired, we can furnish No. 26 Gauge Galvanized tops for covering silo chutes. These lids or tops are removable and pitched to allow water to drain. Furnished either plain Galvanized or with Glass forming a Skylight.

#### BADGER GALVANIZED CORRUGATED SILO CHUTES

29 Gauge, $1\frac{1}{4}$ inch Corrugation, per linear foot.....	\$ .77
28 Gauge, $1\frac{1}{4}$ inch Corrugation, per linear foot.....	.85
26 Gauge, $1\frac{1}{4}$ inch Corrugation, per linear foot.....	.92

#### TOPS FOR COVERING BADGER SILO CHUTES

Galvanized Top (plain), each.....	\$1.95
Galvanized Top, with plain ribbed glass forming skylight, each.....	6.15
Galvanized Top, with wire ribbed glass forming skylight, each.....	6.95

We can furnish silo chutes built to conform to most any specification—price in accordance.



No. 7





Badger Silo Roofs Pay Their Cost With What They Save

"BADGER"

## Gambrel Silo Roofs

"SELF-SUPPORTING"



No. 2

### Roof with Filling Door

Badger Gambrel Silo Roofs are constructed for use on any kind of silo, wood stave, cement block, cement stave, metal, tile or concrete.

These roofs are **self-supporting**—no rafters or bracing of any kind is required. Construction consists of full weight No. 26 Gauge Extra Heavy Coated Galvanized sheets extending down over the sides of silo and our special joint formation allows sufficient for any variation in the silo.

Between the upper and lower roofs we use a Galvanized Iron Frame built from  $1\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{8}$  inch angle, and the larger sizes are further reinforced by a brace in center. Roof sheets are built around this angle frame which is also provided with extra heavy cable wires for fastening to top of silo. The roof sheets are fastened to top of silo with steel lugs which eliminates all possibility of becoming loose.

A filling door is furnished in both the upper and lower roof, and the ventilator is our special silo type.

### Size and Price List

Outside Diam. of Silo	Approx. Ship. Wght.	List Price of Roof Without Dormer
10 feet.....	280 pounds.....	\$53.00
11 feet.....	320 pounds.....	60.50
12 feet.....	390 pounds.....	68.00
13 feet.....	440 pounds.....	76.00
14 feet.....	500 pounds.....	84.00
15 feet.....	560 pounds.....	93.00
16 feet.....	625 pounds.....	102.00
18 feet.....	800 pounds.....	130.00
20 feet.....	990 pounds.....	156.00
Extra Filling Doors, each.....		3.10

Above prices do not include wood curb or clamps for masonry silos. Instruction sheet for erecting furnished with each Badger Gambrel Silo Roof.



When ordering Gambrel Silo Roofs always state what material silo is constructed of and give outside diameter and thickness of walls.



Every Silo Needs a Metal Roof and Chute

"BADGER"

## Gambrel Silo Roofs

"Self-Supporting"



No. 3

With Small Dormer Window

No. 3—Small Dormer—without sash and glass, each.....	\$ 9.00
No. 3—Small Dormer—with sash and glass, each.....	13.85



No. 4

With Large Dormer Window

No. 4—Large Dormer—without sash and glass, each.....	\$18.00
No. 4—Large Dormer—with sash and glass, each.....	23.10

We can furnish any size Badger Gambrel Silo Roof with Dormer windows as illustrated above. Dormers always shipped set-up complete—saving time of assembling on job.



When Ordering Silo Roofs—GIVE OUTSIDE DIAMETER OF SILO.





## Instructions For Erecting Badger Silo Roofs on Cement, Tile, or Wood Stave Silos

### SINGLE PITCH

Bolt Band Iron stop lugs to the bottom of all sections. Then place four of the sections around the silo to support the heavy galvanized collar at top. The sections are supported at the bottom by the stop lugs and are fastened to the collar with bolts. Decide on the location of filling door and place the section marked "starter" just to the right of this point. (Right as you stand inside the silo), then erect additional sections moving any of the sheets first erected, if necessary. Place the large seam over the small one in all cases and fasten securely with seam clips. Finish with sheet marked "finisher." Nail all sheet iron straps riveted to sheets, securely to wood plate, which should be bolted to the top of silo. After roof is complete bolt on Ventilator cap and fasten screen in place to keep out the birds.

### GAMBREL SILO ROOFS, WITHOUT FLANGES

#### LOWER ROOF

Bolt the stop lugs to the bottom of all the sections of the lower roof. Then place four of the sections around the silo in such a way as to support the circular steel angle. (See illustration on page 97). The sections are supported at the bottom by the stop lugs and are fastened to the circular angle at the top by bending the straps around it. Fasten turnbuckle devices to the silo (see illustration on page 97), spacing evenly about silo. Then hook the small lugs over the circular steel angle locating them directly over the turnbuckle devices. Each cable is of the proper length to go from one turnbuckle, up through a lug hooked over the circular angle. Decide on the location of the filling door, and place the section marked, "Starter" just to the right of this point. (Right as you stand inside of the silo). Then erect additional sections moving any of the sheets first erected if necessary. Place the large seam over the small one in all cases, and fasten securely with seam clips. Finish with the sheet marked "finisher". Enough space will then be left for the door.

#### TOP ROOF

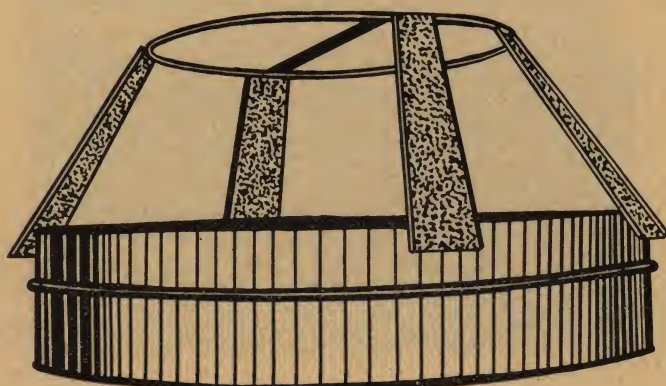
Bolt the small lugs (Lug A) to the bottom of the top roof sections. Erect three sections to form a sort of tripod, bolting them to the heavy galvanized Collar at the top and hooking lug "A" under circular Angle at the bottom. Lay the sections in the same manner as the lower roof sections were erected, placing the filling door where desired. After the top roof is completed, bolt the ventilator cap to the collar.

#### DORMER WINDOW

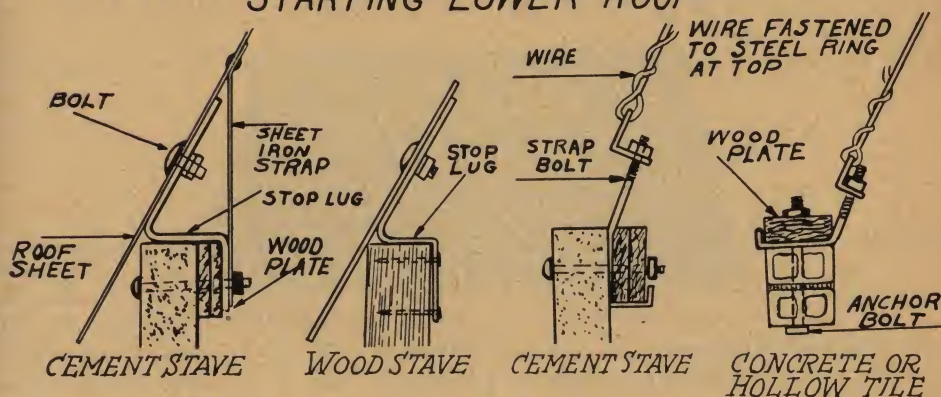
Should the roof have a dormer, slip the parts together and bolt securely. The dormer will take the place of two regular roof sections of the lower roof and should be put in place while erecting lower roof.



## Illustrating method of application and construction details of Badger Silo Roofs



STARTING LOWER ROOF



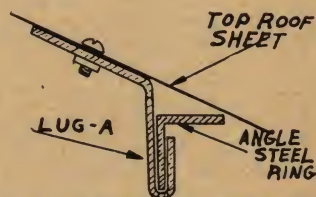
*Showing method of fastening roof to various types of Silos. Wood plates not furnished.*



COLLAR



SEAM CLIP



CONNECTION OF TOP ROOF SHEETS TO CIRCULAR ANGLE





## Netmesh Diamond Expanded Metal Lath



There is a type of Netmesh Diamond Expanded Metal Lath for every requirement.

### Netmesh Diamond Expanded Lath $\frac{3}{8}$ " Mesh

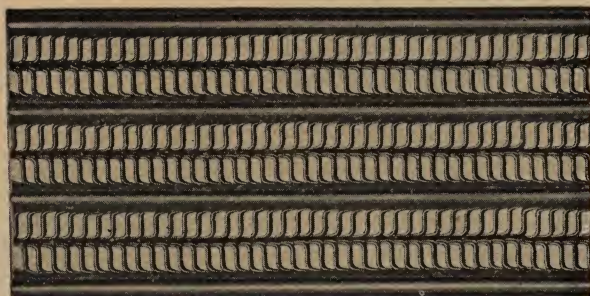
TYPE	Weight per Sq. Yard Pounds	Size of Sheets Inches	Number of Sheets in Bundle	Square Yards in Bundle	Weight per Bundle Pounds
Cut from Black Steel Sheets, reannealed and painted black after expanded.	2.20	27x96	10	20	44
	2.50	27x96	10	20	50
	3.00	27x96	10	20	60
	3.40	27x96	10	20	68
Cut from Coppered Metal. Painted Black.	3.00	27x96	10	20	60
	3.40	27x96	10	20	68
Cut from galvanized open-hearth steel sheets.	2.50	27x96	10	20	50
	3.40	27x96	10	20	68
Cut from Armco Ingot Iron or Toncan Iron Painted Black.	3.40	27x96	10	20	68
Cut from No. 11 pure zinc.	2.80	27x96	10	20	56
Cut from 16 oz. cold rolled copper.	3.00	27x96	10	20	60

### Used as Self-Furring Lath

Netmesh Diamond Expanded Metal Lath also furnished Corrugated (corrugations run the length of the sheet) or as Furlath (deep indentations at regular intervals).

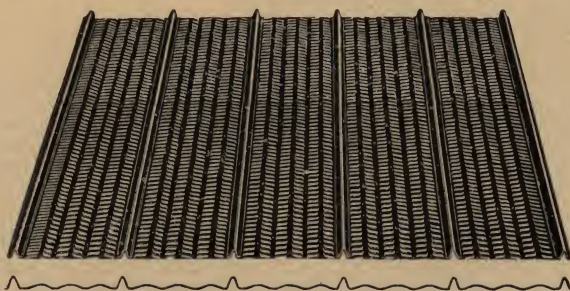


## "Stay-Rib" Metal Lath No. 1



Stay-Rib Metal Lath has reinforcing ribs  $\frac{1}{2}$  inch wide and  $1\frac{3}{4}$  inch apart, center to center. This gives a rigid, flat, strong lath, permitting extra wide spacing of studs, joists or channels and effecting a big saving in both labor and material.

## 3-8 Inch "Stay-Rib" Metal Lath No. 2



Wherever self-furring lath is required  $\frac{3}{8}$  Stay-Rib No. 2 is ideal. The high  $\frac{3}{8}$  inch Ribs, spaced 4.8 inches center to center, with five stays, or strands, between Ribs, furnish most efficient furring qualities as well as remarkable rigidity.

### Stay Rib Metal Laths No. 1 and No. 2

TYPE	Weight per Sq. Yard Pounds	Size of Sheets Inches	Number of Sheets in Bundle	Square Yards in Bundle	Weight per Bundle Pounds
Cut from Black Steel Sheets, reannealed and painted black after expanded.	#2.75	24x96	9	16	44
	3.00	24x96	9	16	48
	3.40	24x96	9	16	54
	4.00	24x96	9	16	64
Cut from Coppered Metal. Painted Black.	3.40	24x96	9	16	54
Cut from galvanized open-hearth steel sheets.	3.40	24x96	9	16	54
	*4.00	24x96	9	16	64
Cut from Armco Ingot Iron or Toncan Iron Painted Black.	3.40	24x96	9	16	54

# No. 1 Stay Rib only

\* No. 2 Stay Rib only





## "Superior" Outside Corner Bead



## "Superior" Inside Corner Bead



## "Expansion" Corner Bead



Patented June 13, 1922

No. 1 Expansion Corner Bead for Outer Angle of Plastered Wall



Patented June 13, 1922

No. 2 Expansion Corner Bead for Inner Angle of Plastered Wall



Corner Lath



Lath Strip

## "Badger" Wall Ties or Brick Bonds



Superior Corner Bead for Inside and Outside Corners furnished in lengths of 6, 7, 8, 9, 10 and 12 foot. Made from No. 26 Gauge Tight-Coat Galvanized Steel. Packed 10 pieces of uniform lengths to the bundle; crated approximately 500 and 1000 feet. Shipping weight approximately 220 pounds per 1000 feet crated.

Expansion Corner Bead No. 1 for Outside Corners and No. 2 for Inside Corners furnished in lengths of 8, 9, 10 and 12 foot. Made from No. 26 Gauge Tight-Coat Galvanized Steel. Crated approximately 500 and 1000 feet. Shipping weight approximately 230 pounds per 1000 feet crated.

## Corner Lath and Lath Strips

Cut from 2.50 lb. Painted and Galvanized Netmesh Lath.

### Sizes

- 2"x2"x96" Corner Lath
- 3"x3"x96" Corner Lath
- 4"x4"x96" Corner Lath
- 3"x96"—Lath Strips
- 4"x96"—Lath Strips

Packed in Reinforced Bundles of 504 feet.

Made from Extra Heavy Tight-Coat Galvanized Steel Size  $\frac{7}{8}$  inch x  $6\frac{3}{4}$  inches.

Corrugated the short way. Three nail holes punched in each Bond. Packed 1000 in a carton.





## A Few Users of "Badger" Sheet Metal Products



*Round Rock Farm — Northome, Minn.*



*Polk Stock Farm, Sidney, Ia.*



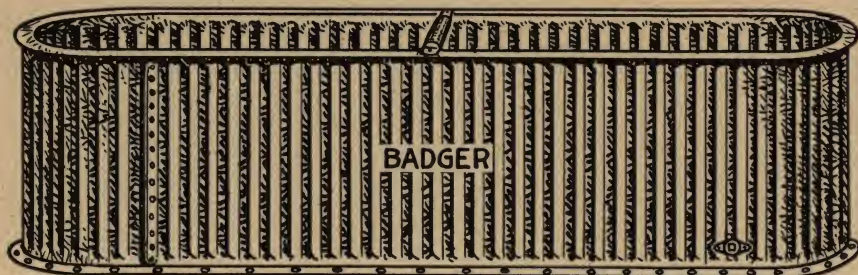
*Mitchell Bros., Milbank, So. Dak.*

Men who make a success of farming are the ones who know the value of good equipment. You'll see thousands of "Badger" Tanks, Troughs, Cupolas and Hog House Skylights on the better class of farm buildings throughout the northwest.





**"BADGER"**  
**Corrugated Round End Tanks**  
**Construction Illustrated**



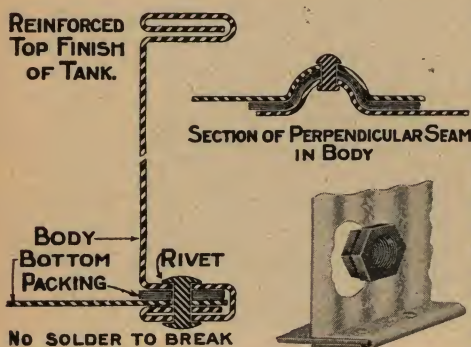
(Patented)

List Prices Page 103.

The method employed in the manufacture of Badger Corrugated Tanks has completely revolutionized the tank industry. The machinery used folds the top and bottom flanges and corrugates the sides in one operation, constructing a whole section from one solid sheet of steel. After the bottom is in place, there are four thicknesses of steel in the bottom flange and three in the top.

Perpendicular seams in the body are joined together with an extra deep corrugation—this construction makes all these seams very firm and rigid.

No solder is used in Corrugated Tanks. A specially prepared packing is inserted in perpendicular body seams and also where bottom and flange meet. After packing has been inserted these connections are passed through special built machines which press the thickness of steel and packing tightly together. The body seams are then riveted every inch, and the bottom flange every two inches with special Galvanized rivets; binding steel and packing in one tight immovable joint. The outer edge of the packing is then painted with a special water-proof liquid, which sets and hardens, making a perfect water-tight joint. If by some accident this Tank does leak, all that is necessary is to let water stand in it for ten or twelve hours, by which time the packing will swell sufficiently to stop all leakage. This feature will appeal to dealers who have had trouble with leaky Tanks.



Illustrating Drain Plug.

Badger Corrugated Tanks are made in following styles and heights only:

Round End.....	12, 18, 24 and 30 inches high
Square End.....	12, 18, 24 and 30 inches high
Round.....	12, 18, 24 and 30 inches high
Wagon Tanks.....	24 inches high only

All styles are constructed of full weight No. 20 gauge Extra Heavy Coated Galvanized Sheets—no other gauge.

Bottom in any style Corrugated Tank can be heavier than No. 20 Gauge—when heavy bottom is wanted this can be supplied at following extra cost:

For No. 18 Gauge Galvanized Bottom.....	Add 12½%
For No. 16 Gauge Galvanized Bottom.....	Add 25 %

When entire Tank must be constructed of heavier material than No. 20 Gauge, or of different height than we can build in the Corrugated style, it must be plain and reinforced with angle and band irons, with seams soldered, as illustrated on page 106.

Corrugated Tanks when ordered for inside use should have all seams soldered—we do this at small additional charge.





**"BADGER"**  
**Corrugated Round End Tanks**  
**"EXTRA HEAVY COATED"**

**PRICE LIST**

**SHALLOW CORRUGATED ROUND END TANKS**

List No.	Width Ft.	Height Ft.	Lgth., Ft.	Cap., Gals.	List Pr. 20 Ga.
RE214	2	1	4	47	\$11.40
RE215	2	1	5	60	13.20
RE216	2	1	6	74	15.00
RE217	2	1	7	88	16.80
RE218	2	1	8	102	18.60
RE2110	2	1	10	129	22.20

RE2154	2	1½	4	71	12.00
RE2155	2	1½	5	91	14.10
RE2156	2	1½	6	111	16.20
RE2157	2	1½	7	132	18.30
RE2158	2	1½	8	153	20.40
RE21510	2	1½	10	194	24.60

**CORRUGATED ROUND END TANKS**

List No.	Width Ft.	Height Ft.	Lgth., Ft.	Cap., Bbls.	List Pr. 20 Ga.
RE223	2	2	3	2¼	\$11.00
RE224	2	2	4	3	12.60
RE225	2	2	5	3¾	15.20
RE226	2	2	6	4½	17.70
RE227	2	2	7	5½	20.30
RE228	2	2	8	6¼	22.80
RE2210	2	2	10	8	27.90

RE2254	2	2½	4	3¾	15.50
RE2256	2	2½	6	5¾	22.10
RE2258	2	2½	8	8	28.70

RE2524	2½	2	4	3¾	14.10
RE2525	2½	2	5	4¾	17.00
RE2526	2½	2	6	5¾	19.80
RE2527	2½	2	7	7	22.70
RE2528	2½	2	8	8	25.50
RE25210	2½	2	10	10¼	31.20

RE25254	2½	2½	4	4½	18.20
RE25256	2½	2½	6	7¼	25.50
RE25258	2½	2½	8	10	32.70

**Corrugated Round End Tanks—Con't.**

List No.	Width Ft.	Height Ft.	Lgth., Ft.	Cap., Bbls.	List Pr. 20 Ga.
RE325	3	2	5	5½	\$18.60
RE326	3	2	6	7	21.80
RE327	3	2	7	8¼	24.90
RE328	3	2	8	9½	28.10
RE3210	3	2	10	12¼	34.40
RE3212	3	2	12	15	41.00
RE3214	3	2	14	17¾	47.30

RE3256	3	2½	6	8¾	27.80
RE3258	3	2½	8	12	35.70

RE3525	3½	2	5	6½	20.30
RE3526	3½	2	6	8	23.70
RE3527	3½	2	7	9¾	27.20
RE3528	3½	2	8	11¼	30.60
RE35210	3½	2	10	14¼	37.50
RE35212	3½	2	12	17½	44.70
RE35214*	3½	2	14	20¾	51.60

RE35255	3½	2½	5	8	25.80
RE35256	3½	2½	6	10	30.00
RE35258	3½	2½	8	13¾	38.20

RE428	4	2	8	12¾	32.40
RE4210	4	2	10	16¼	39.30
RE4212	4	2	12	20	46.50
RE4214*	4	2	14	23½	53.40
RE4216*	4	2	16	27¼	60.30

RE528	5	2	8	15½	37.50
RE5210	5	2	10	20	45.20
RE5212	5	2	12	24¾	53.10
RE5214*	5	2	14	29¼	60.80
RE5216*	5	2	16	33¾	68.40

RE628	6	2	8	18½	41.90
RE6210	6	2	10	23¾	50.40
RE6212	6	2	12	29¼	59.30
RE6214*	6	2	14	34¾	67.80
RE6216*	6	2	16	41	76.40

All Corrugated Round End Tanks have sufficient top and side bracing.

Tanks marked with an asterisk (\*) have one inside truss brace.

All Corrugated Round End Tanks are provided with 1 inch Special Malleable Bushing and Plug attached to Tank with gasket and locknut.

All Corrugated Round End Tanks listed on this page are shipped set-up.

See page 102 for construction.

For larger and smaller Round End Tanks, see page 106.





(Patented)

## "BADGER" Corrugated Round Tanks "Extra Heavy Coated"

Tanks marked with an asterisk (\*) are smaller in diameter to permit shipping set-up.

All Corrugated Round Tanks are provided with 1 inch Special Malleable Bushing and Plug attached to Tank with gasket and locknut.

All Corrugated Round Tanks listed on this page are shipped set-up.

See page 102 for construction.

For larger sizes see Storage Tanks, pages 110 and 111.

For smaller sizes see House Tanks, page 107.

### PRICE LIST

List No.	Diam., Ft.	Height, Ft.	Cap., Bbls.	List Pr. 20 Ga.	List No.	Diam. Ft.	Height Ft.	Cap., Bbls.	List Pr. 20 Ga.
R31	3	1	1½	\$10.80	R552	5½	2	10½	\$22.50
R315	3	1½	2¼	11.60	R5525	5½	2½	13¼	29.00
R32	3	2	3	12.30	R62	6	2	12½	25.50
R325	3	2½	3¾	15.50	R625	6	2½	15¾	32.40
R352	3½	2	4	14.00	R652	6½	2	14¾	28.80
R3525	3½	2½	5	17.70	R6525	6½	2½	18½	36.20
R42	4	2	5	15.80	R72	7	2	17¼	32.30
R425	4	2½	6¾	19.80	R725	7	2½	21½	40.00
R452	4½	2	7	17.70	R752	7½	2	20	37.10
R4525	4½	2½	8¾	22.40	R7525	7½	2½	25	45.50
R52	5	2	8½	20.00	R82*	8	2	22¾	42.00
R525	5	2½	10¾	25.30	R825*	8	2½	28½	51.20

### "BADGER"

## Corrugated Round End Wagon Tanks

Badger Corrugated Round End Wagon Tanks are made entirely of No. 20 gauge Extra Heavy Coated Galvanized Sheets and are built with the same care and exactness that is characteristic of all our Tanks. They are similar in construction to our Corrugated Round End Tanks, and in addition are extra well braced and reinforced for the purpose intended. We place in each tank a galvanized bulkhead to break the force of the water caused by a sudden movement. The cover is water-tight, and furnished with a 15-inch manhole with lid for same, as shown in the cut. We place a 1-inch connection for either pipe or hose at the rear end near bottom for drawing off contents. The tank is very strong and durable and especially made for hauling. It may be set on any kind of wagon, but the entire length and width of the bottom should always be supported—is should never be suspended from one bolster to another.



(Patented)

### PRICE LIST

List No.	Width, Ft.	Height, Ft.	Length, Ft.	Capacity, Barrels	List Price, 20 Ga.
REW224	2	2	4	3	\$28.80
REW225	2	2	5	3¾	32.40
REW226	2	2	6	4½	36.00
REW228	2	2	8	6¼	41.40
REW2528	2½	2	8	8	46.80
REW25210	2½	2	10	10¼	54.00
REW328	3	2	8	9½	53.20
REW3210	3	2	10	12¼	58.60

All Corrugated Round End Wagon Tanks listed are shipped set-up.

See page 102 for further information on construction.

If Wagon Tanks are required in any other sizes than listed, we can furnish them in plain style, reinforced with angle and band irons, seams soldered; see page 106 for construction.





"BADGER"  
Corrugated Square End Tanks  
"Extra Heavy Coated"



(Patented)

## PRICE LIST

List No.	Width, Feet	Height, Feet	Length, Feet	Capacity, Barrels	List Price, 20 Ga.
SE224	2	2	4	3 $\frac{3}{4}$	\$17.80
SE225	2	2	5	4 $\frac{3}{4}$	21.10
SE226	2	2	6	5 $\frac{1}{2}$	24.50
SE228	2	2	8	7 $\frac{1}{2}$	31.10
SE2210	2	2	10	9 $\frac{1}{2}$	37.70
SE2254	2	2 $\frac{1}{2}$	4	4 $\frac{3}{4}$	19.80
SE2256	2	2 $\frac{1}{2}$	6	7	27.60
SE2258	2	2 $\frac{1}{2}$	8	9 $\frac{1}{2}$	35.40
SE22510	2	2 $\frac{1}{2}$	10	11 $\frac{3}{4}$	43.20
SE2524	2 $\frac{1}{2}$	2	4	4 $\frac{3}{4}$	19.90
SE2525	2 $\frac{1}{2}$	2	5	5 $\frac{3}{4}$	23.70
SE2526	2 $\frac{1}{2}$	2	6	7	27.30
SE2528	2 $\frac{1}{2}$	2	8	9 $\frac{1}{2}$	34.70
SE25210	2 $\frac{1}{2}$	2	10	11 $\frac{3}{4}$	41.00
SE25254	2 $\frac{1}{2}$	2 $\frac{1}{2}$	4	5 $\frac{3}{4}$	23.40
SE25256	2 $\frac{1}{2}$	2 $\frac{1}{2}$	6	9 $\frac{3}{4}$	32.00
SE25258	2 $\frac{1}{2}$	2 $\frac{1}{2}$	8	11 $\frac{3}{4}$	40.60
SE252510	2 $\frac{1}{2}$	2 $\frac{1}{2}$	10	14 $\frac{3}{4}$	49.20
SE325	3	2	5	7 $\frac{1}{4}$	26.00
SE326	3	2	6	9 $\frac{1}{2}$	30.00
SE328	3	2	8	11 $\frac{1}{4}$	38.30
SE3210	3	2	10	14 $\frac{1}{4}$	46.40
SE3212	3	2	12	17	55.00
SE3256	3	2 $\frac{1}{2}$	6	10 $\frac{3}{4}$	35.10
SE3258	3	2 $\frac{1}{2}$	8	14 $\frac{1}{4}$	44.50
SE32510	3	2 $\frac{1}{2}$	10	17 $\frac{1}{2}$	53.90
SE428	4	2	8	15	44.80
SE4210	4	2	10	19	53.70
SE4212	4	2	12	22 $\frac{3}{4}$	63.00
SE4258	4	2 $\frac{1}{2}$	8	19	51.40
SE42510	4	2 $\frac{1}{2}$	10	23 $\frac{1}{2}$	61.50

All Corrugated Square End Tanks have sufficient bracing.

All Corrugated Square End Tanks are provided with 1 inch Special Malleable Bushing and Plug attached to Tank with gasket and locknut.

All Corrugated Square End Tanks listed on this page are shipped set-up.

See page 102 for construction.

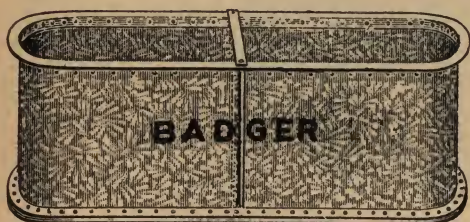
If Square End Tanks are required in any other sizes than listed, we can furnish them in plain style, reinforced with angle and band iron, seams soldered.

For smaller Square End Pans, see page 114.





**"BADGER"**  
**Plain Round End Tanks**  
**"Extra Heavy Coated"**



Angle and Band Iron Construction

All Tanks listed on this page made in Plain style only.  
 Tanks marked with an asterisk (\*) lock seam bottom with angle iron reinforcing at top.

All large Plain Round End Tanks listed on this page should be of heavier construction than 20 gauge.

To obtain lists for heavier than 20 gauge add the following: 18 gauge add 30% and for 16 gauge add 60%.

All Plain Round End Tanks are provided with 1 inch Special Malleable Bushing attached to Tank with gasket and locknut.

All Plain Round End Tanks listed on this page are shipped set-up.

For Corrugated Round End Tanks see page 102.

**PRICE LIST**

**SHALLOW PLAIN ROUND END TANKS**

List No.	Width Ft.	Height Ft.	Lgth., Ft.	Cap., Gals.	List Pr. 20 Ga.
RE1514*	1½	1	4	50	\$10.50
RE1515*	1½	1	5	60	12.50
RE1516*	1½	1	6	70	15.50
RE1518*	1½	1	8	90	18.00

**PLAIN ROUND END TANKS**

List No.	Width Ft.	Height Ft.	Lgth., Ft.	Cap., Bbls.	List Pr. 20 Ga.
RE32510	3	2½	10	15½	\$43.60
RE32512	3	2½	12	18¾	51.90
RE32514	3	2½	14	22	59.80
RE352510	3½	2½	10	18	46.50
RE352512	3½	2½	12	22	55.00
RE352514	3½	2½	14	26	63.30
RE4258	4	2½	8	15¾	40.90
RE42510	4	2½	10	20½	49.40
RE42512	4	2½	12	25	58.30
RE42514	4	2½	14	29½	66.90
RE438	4	3	8	19	45.90
RE4310	4	3	10	24½	55.50
RE4312	4	3	12	30	65.40

**PLAIN ROUND END TANKS—Cont.**

List No.	Width Ft.	Height Ft.	Lgth., Ft.	Cap., Bbls.	List Pr. 20 Ga.
RE4314	4	3	14	35½	\$74.90
RE4316	4	3	16	41	84.50
RE5258	5	2½	8	19½	46.80
RE52510	5	2½	10	25	56.10
RE52512	5	2½	12	30¾	65.90
RE52514	5	2½	14	36½	75.30
RE52516	5	2½	16	43	84.70
RE538	5	3	8	23¼	52.20
RE5310	5	3	10	30¼	62.60
RE5312	5	3	12	37	73.30
RE5314	5	3	14	44	83.80
RE5316	5	3	16	50¾	94.10
RE6258	6	2½	8	22¾	51.70
RE62510	6	2½	10	29½	62.30
RE62512	6	2½	12	36½	73.50
RE62514	6	2½	14	43½	83.70
RE62516	6	2½	16	51¼	94.30
RE638	6	3	8	27¼	56.70
RE6310	6	3	10	35¾	69.00
RE6312	6	3	12	43¾	81.10
RE6314	6	3	14	52¼	92.80
RE6316	6	3	16	61½	104.50

**"BADGER"**  
**Plain Tanks**  
**Construction Illustrated**

Illustration shows side flanged over and riveted every 3½ inches with special galvanized rivets to bottom, between two flat galvanized bands.

The top, reinforced with 1-inch or heavier galvanized angle iron gives strength and rigidity, and its smooth surface prevents injury to livestock.

Rivets are closely drawn and heads perfectly formed. We call attention to the fact that with this type of construction rivets do not enter water chamber. Seams are all well soldered on the inside by experienced mechanics, insuring tank against leakage.





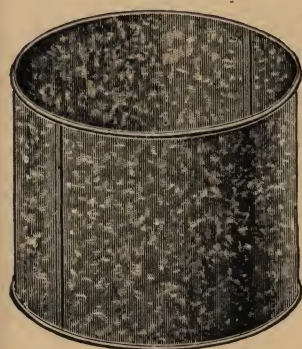


## "BADGER"

## Galvanized House Tanks

The sides and bottom are double seamed together, and all seams locked and securely soldered. Constructed of 20 and 22 gauge Extra Heavy Coated Galvanized Sheets according to size and are very strong and durable.

## PRICE LIST



List No.	Diam., Ft.	Height, Ft.	Capacity, Gallons	List Price
H1515	1½	1½	17	\$7.10
H152	1½	2	23	7.80
H1525	1½	2½	29	8.60
H153	1½	3	35	9.40
H215	2	1½	31	7.80
H22	2	2	42	8.90
H225	2	2½	53	9.80
H23	2	3	64	10.80
H24	2	4	84	12.80
H25	2	5	106	14.70
H26	2	6	128	16.70
H2515	2½	1½	50	11.00
H252	2½	2	67	12.40
H2525	2½	2½	84	13.70
H253	2½	3	101	15.10
H254	2½	4	133	17.90
H255	2½	5	167	20.60
H256	2½	6	201	23.30

For larger sizes see pages 104, 110 and 111.

## GALVANIZED SWEAT PANS FOR HOUSE TANKS

1" Deep, 6" Larger Diameter Than Tanks

For 1½" Diameter Tanks.....	\$4.80
For 2" Diameter Tanks.....	6.00
For 2½" Diameter Tanks.....	8.00

## GALVANIZED CONE COVERS FOR HOUSE TANKS

List No.	Diameter, Feet	List Price
M15	1½	\$3.60
M2	2	4.60
M25	2½	5.90

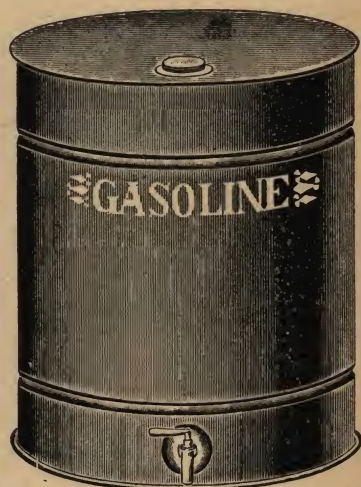
## "BADGER"

## Oil and Gasoline Tanks

Badger Oil Tanks are made of extra heavy coated galvanized Sheets. They are very strong and durable, and will give years of continuous service. Furnished with 2-inch screw can opening for inlet and ¾ inch lever handled oil-tight faucet. For lubricating oils Perfection Iron Gate Faucets are furnished. They are painted RED for gasoline and ALUMINUM for kerosene.

## SIZES AND LIST PRICES

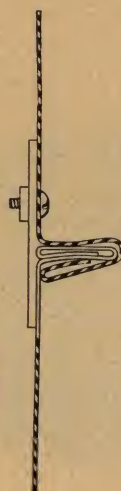
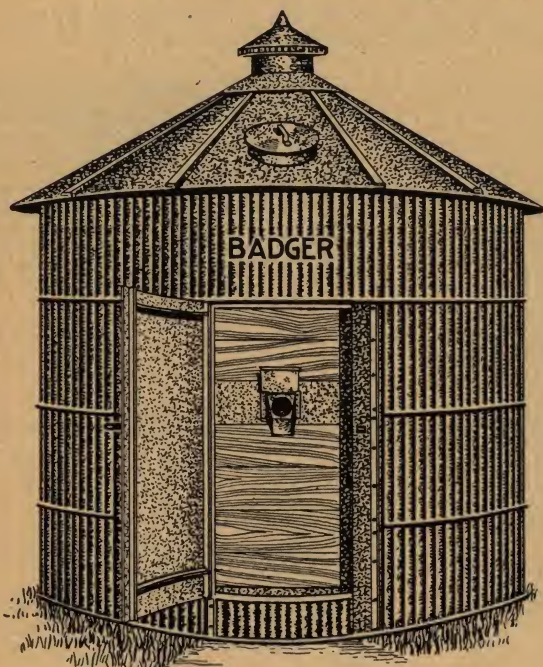
List No.	Diam., In.	Height, In.	Capacity, Gals.	Gauge No.	List Price
GS85	18	30	31	22	\$9.90
GS86	24	28	52	22	12.20
GS87	24	36	65	22	14.00
GS88	34	30	112	22	18.00
GS89	34	36	136	20	19.80
GS90	34	42	159	20	23.90
GS91	34	48	182	20	26.10
GS92	40	42	220	20	30.60
GS93	40	48	253	20	32.40







## "BADGER" Galvanized Corrugated Grain Bin



Showing Special Reinforced 6-Ply Construction — a Feature Found Only in "Badger" Bins.

Badger Grain Bins are absolutely rat-proof, rust-proof, fire-proof, rain-proof and burglar-proof, as they are constructed of the very best grade rust-resisting Extra Heavy Coated Galvanized Sheets.

The body or side sheets in either size bin are extra heavy coated 20 gauge Galvanized and so corrugated that they will withstand all pressure without the aid of braces. Further, the corrugations will allow for expansion and contraction, due to heat and frost, and thus prevent destruction of the Bin.

Floor sheets in 500 bushel Bin are 26 gauge and in 1000 bushel Bin 24 gauge Galvanized Sheets securely double seamed together with exception of center seam in which holes are punched for fastening or nailing. This style of construction requires purchaser to only put together this one seam.

Roof sheets are of same weight Galvanized Sheets as floor sheets, only these are formed into wedge-shaped sections which are easily joined together. Due to this special edge formation roof is very rigid and absolutely self-supporting.

Equipment consists of ornamental Cupola and filling door in roof. Galvanized door and one entry door slide with sacking spout attached which fits into grooves on inside of door frame, is also furnished.

Our Corrugated Body sheets with all flanges formed and holes punched, simplifies the erection to such an extent that any inexperienced person with a hammer, pliers and screwdriver can set up Badger Bins without any trouble. All Bins are set up complete at our factory before shipment, and everything plainly marked.

### Built in Two Sizes Only

Diam.	Height	Capacity	Approximate Ship. Wt.	List Price
10 ft.	8 ft.	500 bu.	900 lbs.	\$165.00
14 ft.	8 ft.	1000 bu.	1200 lbs.	245.00

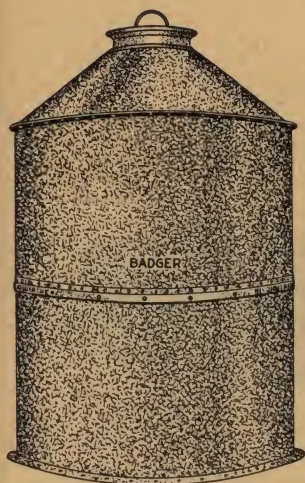
Necessary bolts, lugs and instructions for erecting, furnished with each Bin.





## "BADGER"

## Galvanized Plain Cisterns; with Cone Covers



Badger Steel Cisterns are built of 20 Gauge Extra Heavy Coated Galvanized Sheets, reinforced on the inside with heavy channel steel to protect against outside pressure when the tank is empty. A Heavy Galvanized Band is around the outside as shown in illustration. The cone top tapers to an 18 inch diameter galvanized manhole with cover. All seams are securely soldered on the inside.

Steel Cisterns are more sanitary and easier kept free from contamination than concrete or brick, as they keep out surface waters, bugs, rats, etc. There is no danger of cracks, and they are not affected by frost or rust when buried in the ground.

No. C44 to C66 can be shipped set up; for shipping information regarding larger Tanks, refer to page 111.

## PRICE LIST

List No.	Diameter, Feet	Height, Feet	Capacity, Barrels	List Price 20 Ga.
C44	4	4	10 $\frac{3}{4}$	\$56.00
C45	4	5	13 $\frac{1}{2}$	63.70
C46	4	6	16 $\frac{1}{4}$	71.40
C48	4	8	21 $\frac{3}{4}$	86.80
C55	5	5	21 $\frac{3}{4}$	77.10
C56	5	6	26	85.90
C58	5	8	34 $\frac{3}{4}$	103.50
C66	6	6	38	103.60
C68	6	8	53	123.50
C610	6	10	67 $\frac{1}{4}$	143.40
C88	8	8	95 $\frac{1}{4}$	180.90
C810	8	10	119 $\frac{1}{4}$	206.60

To calculate list prices for other sizes use lists of Storage Tanks of desired sizes and lists of Covers combined.

To obtain lists for heavier than 20 gauge, add the following: 18 gauge add 30% and for 16 gauge add 60%.

## "BADGER"

## Galvanized Corrugated Cisterns; with Cone Covers

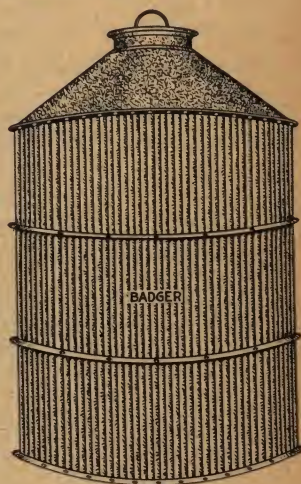
The ribs formed by the flanges of the different sections are especially adapted to a Cistern, as they brace equally well against inside or outside pressure. These ribs and corrugations make these cisterns equal to an 18-gauge cistern while they weigh less and cost less than Cisterns made of 18-gauge material. The cone top tapers to an 18 inch diameter Galvanized manhole with cover.

We can only furnish the sizes shown. Cannot be shipped knocked down.

## PRICE LIST

List No.	Diameter, Feet	Height, Feet	Capacity, Barrels	List Price 20 Ga.
CC44	4	4	9 $\frac{1}{2}$	\$67.20
CC46	4	6	14 $\frac{1}{2}$	85.70
CC48	4	8	19	104.15
CC56	5	6	24	103.10
CC58	5	8	32	124.20
CC66	6	6	35 $\frac{1}{4}$	124.30

Badger Corrugated Cisterns can be furnished made of 20 gauge Extra Heavy Coated Galvanized Sheets only. All seams securely soldered on the inside.

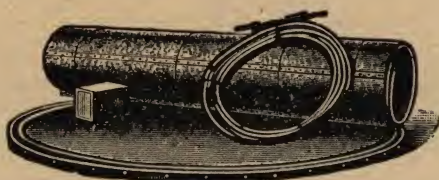
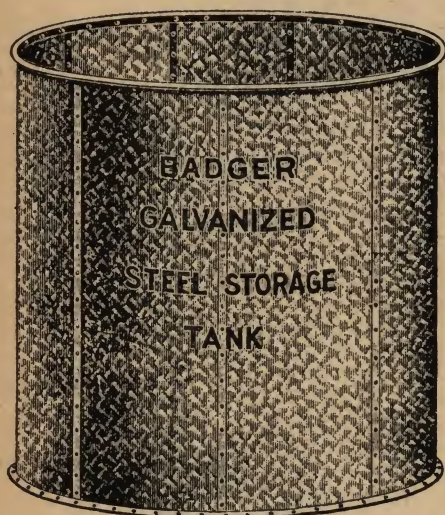






## “BADGER” Round Storage Tanks

Made of Extra Heavy Coated Galvanized Sheets



Showing Tank Knocked Down  
Very Easy to Set Up

In shipping tanks knocked down an angle iron is riveted to the bottom with rivet holes punched and fitted to receive the sides. On Tanks not over eight feet in diameter, the bottom is all in one piece, while the sides are put together but not soldered. Then rolled up for shipment, so that at destination all that is necessary to put it together is to lay bottom right side up and stand the roll of side on it, bottom end down. As it is unrolled rivet fast to angle on bottom, matching the first rivet hole marked by a V with a like marked rivet hole of the bottom. Then rivet up side seam and put on the rim. A wire will be tied in one rivet hole which indicates the hole it matches in the side marked. Then the joints put together should be thoroughly soldered

with a heavy soldering iron to insure thorough soaking in of the solder. Our Tank is the easiest of knocked-down tanks to erect. Rivets and solder to completely erect the tank are included in shipment.

If Storage Tank is ordered knocked down please state size of opening through which Tank must pass, and if this will permit shipping Tank in two sections, upper and lower, order in this way. Bottom and lower section will come set-up ready for upper section and save you considerable time. No extra charge for furnishing in this way. This applies only to Tanks  $7\frac{1}{2}$  foot in diameter or smaller, which will permit loading through car door.

The largest Round Tanks that will ship at actual weight set up are  $7\frac{1}{2}$  feet by 6 feet or 6 feet by 8 feet. For shipping information regarding larger Tanks, refer to page 111.

### PRICE LIST

List No.	Diameter, Feet	Height, Feet	Capacity, Barrels	List Price, 20 Ga.
S33	3	3	$4\frac{1}{2}$	\$17.50
S34	3	4	$5\frac{3}{4}$	32.50
S35	3	5	$7\frac{1}{4}$	38.25
S36	3	6	$8\frac{3}{4}$	44.00
S37	3	7	$10\frac{1}{4}$	49.70
S375	3	$7\frac{1}{2}$	11	52.75
S38	3	8	$11\frac{3}{4}$	55.45
S310	3	10	$14\frac{3}{4}$	67.05
S353	$3\frac{1}{2}$	3	6	20.00
S354	$3\frac{1}{2}$	4	$8\frac{1}{4}$	36.00
S355	$3\frac{1}{2}$	5	$10\frac{1}{4}$	42.70
S356	$3\frac{1}{2}$	6	$12\frac{1}{4}$	49.40
S357	$3\frac{1}{2}$	7	$14\frac{1}{4}$	56.20
S3575	$3\frac{1}{2}$	$7\frac{1}{2}$	$15\frac{1}{2}$	59.55
S358	$3\frac{1}{2}$	8	$16\frac{1}{2}$	62.85
S3510	$3\frac{1}{2}$	10	$20\frac{1}{2}$	76.25





## “BADGER” Storage Tanks

(Continued)

List No.	Diameter, Feet	Height, Feet	Capacity, Barrels	List Pr. 20 Ga.	List No.	Diameter, Feet	Height, Feet	Capacity, Barrels	List Pr. 20 Ga.
S43	4	3	8	\$22.50	S6575	6½	7½	59	\$101.40
S44	4	4	10¾	39.70	S658	6½	8	63	106.50
S45	4	5	13½	47.40	S6510	6½	10	78¾	127.50
S46	4	6	16¼	55.10					
S47	4	7	19	62.75	S73	7	3	26	44.50
S475	4	7½	20½	66.55	S74	7	4	31¼	72.20
S48	4	8	21¾	70.35	S75	7	5	43½	83.40
S410	4	10	27¼	85.75	S76	7	6	52¼	94.60
					S77	7	7½	63¾	106.00
S453	4½	3	10½	25.10	S775	7	7½	68½	111.60
S454	4½	4	14	44.60	S78	7	8	73	117.30
S455	4½	5	17¼	53.20	S710	7	10	91¼	139.90
S456	4½	6	20¾	61.80					
S457	4½	7	24½	70.35	S753	7½	3	30	50.00
S4575	4½	7½	26¼	70.40	S754	7½	4	40	80.00
S458	4½	8	28	79.10	S755	7½	5	50	92.10
S4510	4½	10	35	96.30	S756	7½	6	60	104.40
					S757	7½	7	73¼	116.30
S53	5	3	13	28.70	S7575	7½	7½	77	122.40
S54	5	4	17¼	47.20	S758	7½	8	83¾	128.30
S55	5	5	21¾	56.00	S7510	7½	10	104½	152.50
S56	5	6	26	64.80					
S57	5	7	30¼	73.50	S83	8	3	34¼	56.00
S575	5	7½	32½	77.95	S84	8	4	47	87.80
S58	5	8	34¾	82.45	S85	8	5	59½	100.70
S510	5	10	43½	102.95	S86	8	6	71¼	113.50
					S87	8	7	83½	126.40
S553	5½	3	15¾	33.00	S875	8	7½	89½	132.90
S554	5½	4	21	53.80	S88	8	8	95¼	139.30
S555	5½	5	26½	64.05	S810	8	10	119¼	165.00
S556	5½	6	31½	74.20					
S557	5½	7	37	84.20	S92	9	2	29	50.30
S5575	5½	7½	39¼	89.25	S925	9	2½	36¼	60.30
S558	5½	8	42½	94.20	S93	9	3	34½	65.30
S5510	5½	10	53	114.45	S94	9	4	60¼	103.40
					S95	9	5	75½	118.10
S63	6	3	19	36.70	S96	9	6	90½	132.60
S64	6	4	25¼	56.60	S97	9	7	105¼	147.30
S65	6	5	31½	66.60	S975	9	7½	113¼	154.70
S66	6	6	38	76.50	S98	9	8	128¾	161.90
S67	6	7	44¼	86.50	S910	9	10	151	191.10
S675	6	7½	47½	91.60					
S68	6	8	53	96.40	S102	10	2	36	58.50
S610	6	10	67¼	116.30	S1025	10	2½	45	71.00
					S103	10	3	54	77.60
S653	6½	3	22¼	40.60	S104	10	4	74½	120.00
S654	6½	4	29¾	64.40	S105	10	5	93	135.70
S655	6½	5	37¾	74.90	S106	10	6	111¾	151.60
S656	6½	6	44¾	85.40	S107	10	7	130½	187.30
S657	6½	7	55	96.00	S1075	10	7½	139¾	175.40
					S108	10	8	149	183.20
					S1010	10	10	186½	214.50

For smaller sizes see pages 104 and 107.

To obtain lists for heavier than 20 gauge, add the following: 18 gauge add 30% and for 16 gauge add 60%.

Round Storage Tanks of such size as permit loading through car door can be furnished with corrugated sides made of 20 gauge only at additional charge. Corrugated Tanks cannot be shipped knocked down.

### SHIPPING INFORMATION APPLYING TO STEEL TANKS

Tanks shipped set up, the dimensions of which do not permit loading through the center side car door way, 6 feet wide by 7 feet 6 inches high, without the use of end door or window, in a closed car not more than 36 feet in length by 8 feet 6 inches wide and 8 feet high, are charged for at actual weight at authorized rating, subject to minimum charge of 4,000 lbs., at the first class rate for the entire shipment.

Tanks shipped singly set up, of such size as to permit loading through car door, when made of 16 gauge or heavier, take first-class rate of freight, while if made of 17 gauge or thinner, take double first-class rate of freight.

Tanks shipped set up and nested, of such size as to permit loading through car door, when made of 16 gauge or heavier take second class rate of freight, while if made of 17 gauge or thinner take first class rate of freight.

Tanks shipped entirely knocked-down take fourth class rate of freight at actual weight.





## “BADGER” Galvanized Flat Covers

For Round, Round End or Square End Tanks

“Extra Heavy Coated”



Style A



Style B



Style C



Style D



Style E



Style F

List Price — Any Style Desired, 45 Cents per Square Foot

To get the number of square feet in a cover for a round tank, square the diameter. Price for round ends same as for square ends.

### GALVANIZED CONE COVERS, WITH MANHOLES, FOR ROUND STORAGE TANKS

All Tank covers are made of 20 gauge extra heavy coated galvanized sheets and furnished with a 15-inch manhole, which is located in the center of cover unless otherwise specified. If manhole is not wanted, deduct \$3.80 from list price.

Sizes over eight feet in diameter are shipped in roll with holes in seams punched, ready to rivet up.

#### PRICE LIST

List No.	Diameter, Feet	List Pr. 20 Ga.	List No.	Diameter, Feet	List Pr. 20 Ga.
M3	3	\$12.10	M65	6½	\$30.50
M35	3½	14.20	M7	7	34.00
M4	4	16.30	M75	7½	37.70
M45	4½	18.60	M8	8	41.60
M5	5	21.10	M9	9	50.20
M55	5½	24.10	M10	10	59.60
M6	6	27.20	For 18 Ga. add 30% and for 16 Ga. add 60%.		

#### PARTITIONS IN TANKS

We are in position to furnish partitions of any style or construction, in tanks at very reasonable prices.

#### EXTRA CONNECTIONS

Tanks regularly equipped with 1-inch drain plug are so marked. This connection consists of 1" Special Malleable Bushing and Plug attached with gasket and lock nut to side of Tank near bottom. This style of connection and manner of attaching guarantees a water tight job as solder invariably breaks. (See Page 102). If extra connections or different sizes or styles are wanted these can be furnished at small additional charge, as we carry in stock waste nuts, floor flanges, plugs, locknuts and nipples in sizes, ¼ to 2½ inch diameter.

#### EXTRA BRACING

Tanks can be built with extra cross bars, side braces or inside truss braces at additional cost.





## "BADGER" Hog Troughs and Feed Pans



Style U Hog Trough

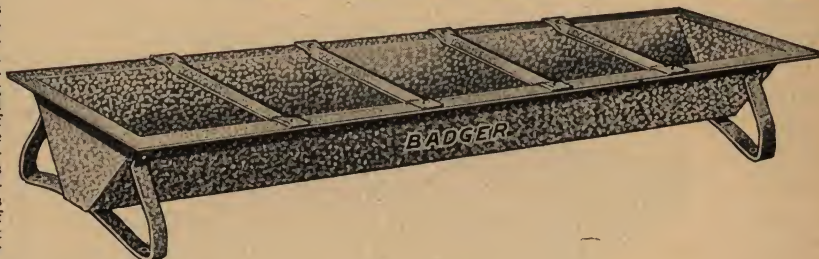
Badger Style U Hog Troughs are made oval or half round with one piece body in one size only, 12 inches wide, 5 inches deep, in lengths up to and including 10 feet. They are made of Extra Heavy Coated Galvanized Sheets of gauges as specified. Trough ends are seamed to body and reinforced with deep beads to stiffen them and strengthen, making them water-tight. End supports are pressed from one-piece extra-heavy weight Galvanized Steel with turned edges and reinforced with three heavy ribs which are

securely attached and braced against body of trough. Bottoms of these supports are flanged in with holes punched so trough can be bolted to floor or if set in field to a piece of scantling. Heavy special formed galvanized cross braces are fastened to body of trough, every 12 inches, with exception of 1½ foot size.

### PRICE LIST

Length, ft.....	1½	2	3	4	5	6	8	10
U. S Gauge.....	24	24	20	20	20	20	20	20
List, Each.....	\$1.00	1.20	1.60	2.30	3.00	3.70	4.90	6.40

Style V Feed Troughs are a sanitary and up-to-date feeding utensil scientifically constructed with flaring sides and flat bottom, this shape allowing the hog to clean up all food. They are made of Full weight No. 20 gauge Extra Heavy Coated Galvanized Sheets. Supports are one-piece heavy galvanized bar iron with holes punched for fastening, if desired. Troughs 8 feet and longer have center support. All Troughs are cross braced every 12 inches.

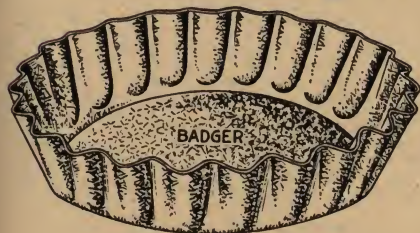


Style V Trough

Width, Depth		Length in Feet and List Price Each Length							
In.	In.	2	3	4	5	6	8	10	
12	6	\$3.50	\$ 4.25	\$ 5.15	\$ 6.05	\$ 6.95	\$ 8.60	\$10.20	
14	7	4.60	5.30	6.10	7.00	7.90	9.70	11.50	
18	9	6.00	6.85	7.75	8.75	9.70	12.05	14.40	
18	12	7.00	7.85	9.20	10.45	11.80	14.90	17.80	
24	12	7.75	8.60	9.85	11.10	12.35	15.25	18.10	
30	15	9.00	10.40	11.80	13.20	14.70	17.95	21.20	

When ordering be sure to specify Width, Depth and Length.

## "BADGER" Corrugated Round Feed Pans



PLAIN UPPER EDGE

Pressed from one-piece Extra Heavy Coated Galvanized sheets, without seams or solder. Corrugated sides greatly stiffen and strengthen. Cannot be damaged by freezing. Can also be furnished in other diameters 3¼" deep.

### PRICE LIST

No.	Diameter Top, In.	Diameter Bottom, In.	Depth In.	Gauge	Capacity, Qts.	Approx. Wt. Per Doz., Lbs.
FP-25	17	14	3½	26	10	26
FP-24	17	14	3½	24	10	33
FP-22	17	14	3½	22	10	40





# "BADGER"

## Galvanized Pans and Troughs



Square End

### PRICE LIST

List No.	Width, Feet	Height, Feet	Length, Feet	Capacity, Gallons	List Price
P154	1	$1\frac{1}{2}$	4	14	\$5.90
P155	1	$1\frac{1}{2}$	5	18	7.00
P158	1	$1\frac{1}{2}$	8	29	10.60
P1510	1	$1\frac{1}{2}$	10	37	12.90
P114	1	1	4	29	9.00
P115	1	1	5	37	11.00
P118	1	1	8	59	16.80
P1110	1	1	10	74	20.70
P1154	1	$1\frac{1}{2}$	4	44	12.50
P1155	1	$1\frac{1}{2}$	5	56	14.90
P1158	1	$1\frac{1}{2}$	8	89	21.90
P11510	1	$1\frac{1}{2}$	10	112	26.60
P1554	$1\frac{1}{2}$	$1\frac{1}{2}$	4	22	6.70
P1555	$1\frac{1}{2}$	$1\frac{1}{2}$	5	28	8.90
P1558	$1\frac{1}{2}$	$1\frac{1}{2}$	8	45	12.90
P15510	$1\frac{1}{2}$	$1\frac{1}{2}$	10	56	16.40
P1514	$1\frac{1}{2}$	1	4	44	11.00
P1515	$1\frac{1}{2}$	1	5	56	13.20
P1518	$1\frac{1}{2}$	1	8	89	19.50
P15110	$1\frac{1}{2}$	1	10	112	23.80
P15154	$1\frac{1}{2}$	$1\frac{1}{2}$	4	67	14.50
P15155	$1\frac{1}{2}$	$1\frac{1}{2}$	5	84	17.50
P15158	$1\frac{1}{2}$	$1\frac{1}{2}$	8	134	26.20
P151510	$1\frac{1}{2}$	$1\frac{1}{2}$	10	168	32.00
P254	2	$1\frac{1}{2}$	4	29	9.00
P255	2	$1\frac{1}{2}$	5	37	11.00
P258	2	$1\frac{1}{2}$	8	59	16.80
P2510	2	$1\frac{1}{2}$	10	74	20.70
P214	2	1	4	59	12.90
P215	2	1	5	74	15.50
P218	2	1	8	119	23.00
P2110	2	1	10	149	28.10
P2154	2	$1\frac{1}{2}$	4	89	16.80
P2155	2	$1\frac{1}{2}$	5	112	18.00
P2158	2	$1\frac{1}{2}$	8	179	27.30
P21510	2	$1\frac{1}{2}$	10	267	33.60

Badger Square End Pans are made of 20 and 22 gauge Extra Heavy Coated Galvanized Sheets according to size and are very strong and durable.

All sizes have ends set in and are lock seamed and soldered. Top is reinforced with  $\frac{3}{4}$  inch angle iron.

Handles can be furnished at a small additional charge.

For Corrugated Square End Tanks, see page 105.





## "BADGER" Galvanized Boiling and Sap Pans

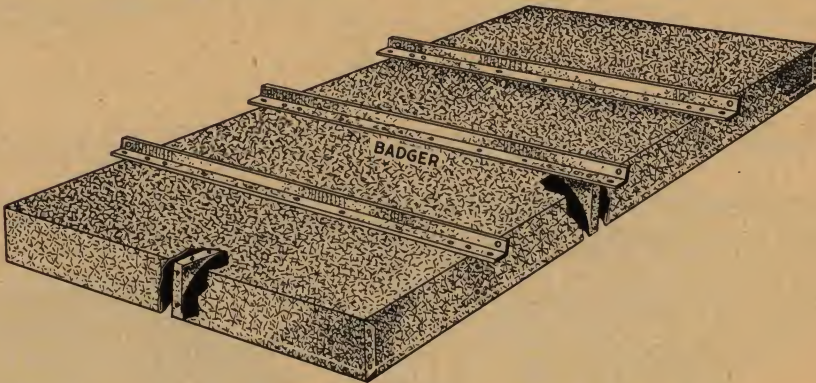


Badger Boiling and Sap Pans are constructed from one sheet of 20 gauge Extra Heavy Coated Galvanized Steel. The Corners are notched, sides and ends formed at right angles to bottom, making only four up and down corner seams, which are riveted and soldered. Top edge is reinforced with Galvanized Angle Iron and handles are provided as illustrated. Special sizes can be furnished at proportionate prices.

### PRICE LIST

List No.	Width, In.	Ht., In.	Length, In.	Est. Cap., Gals.	List Price 20 Ga.	List No.	Width, In.	Ht., In.	Length, In.	Est. Cap., Gals.	List Price 20 Ga.
BP-1	24	6	48	30	\$ 9.50	BP-7	36	6	108	101	\$18.00
BP-2	24	6	60	37	10.50	BP-8	26	8	80	60	14.00
BP-3	24	6	84	52	12.00	BP-9	26	8	104	78	17.00
BP-4	30	6	84	65	14.00	BP-10	32	8	80	72	16.50
BP-5	30	6	108	84	17.00	BP-11	32	8	104	110	18.00
BP-6	36	6	84	79	16.50						

## "BADGER" Galvanized Tobacco Steaming Pans



Before deciding upon sizes and construction of Tobacco Steaming Pans, we consulted with many successful tobacco growers. We are proud of the product illustrated as it represents the ideas of these men which we are sure will be found practical and embodying features such as wanted by actual users.

On account of large size these pans cannot be made from one sheet. We use 20 gauge Extra Heavy Coated Galvanized Sheets of proper sizes and lock seam them tightly together. The corners are notched, sides and ends formed at right angles to bottom, making riveting and soldering only necessary on the four up and down corner seams. Bottom edge of sides and ends is reinforced by turning up a one-half inch hemmed edge. To prevent buckling we use eight special formed heavy galvanized bracket type braces which tie sides, ends and top securely together and leaves interior of pans clear as illustrated. Pans are further braced by three heavy galvanized angles securely riveted across top and projecting over sides to be used as handles to lift pan from ground. Holes are also provided in these angle iron braces and user can attach wood 2 x 4's so that pan can be mounted on wheels if desired.

### PRICE LIST

List No.	Width	Height,	Length,	List Price,
		In.	Ft.	20 Ga.
TP-12	5'5"	5½	12	\$37.00
TP-15	5'5"	5½	15	44.00

Hose connection can be furnished at extra cost—if wanted give exact location and style.

The pans can also be built of 18 or 16 gauge at additional cost. If special size or construction is required submit specifications for estimate.





**"BADGER"**

**Galvanized Tank Floats**

For use on storage and stock tanks to regulate windmill or shut-off valves.

Stock Sizes, Inches. . . . . 9x2½

12x2½

**"BADGER"**

**Galvanized Corrugated Culverts**



Requires only common labor to place. Never affected by heavy traffic—needs no repairs, no expense, no attention and when properly placed will last a lifetime. Badger Galvanized Corrugated Culverts are constructed of various grades; Galvanized Copper Bearing Steel and Pure Iron in following gauges and sizes:

Diam.	Weight Per Foot			Diam.	Weight Per Foot		
	16 Ga.	14 Ga.	12 Ga.		16 Ga.	14 Ga.	12 Ga.
8"	7.4	....	....	30"	....	31.0	....
9"	8.0	....	....	36"	....	39.0	52.0
10"	9.0	....	....	42"	....	44.0	60.0
12"	10.5	....	....	48"	....	50.0	70.0
15"	13.5	....	....	60"	....	....	86.0
18"	15.5	....	....	72"	....	....	104.0
21"	17.0	....	....				
24"	21.0	25.95	....				

Weights denote gauges in which various sizes are furnished.

No coupling bands will be shipped unless ordered. These are charged for extra.

**"BADGER"**

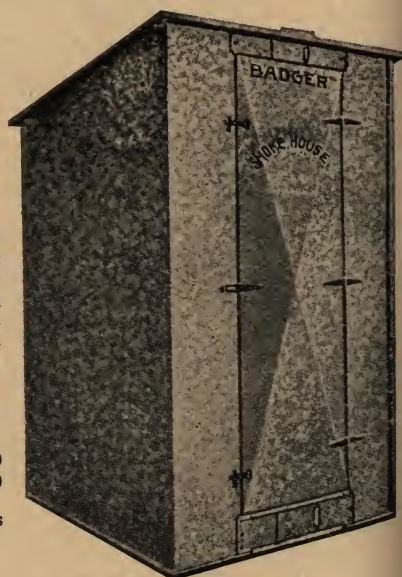
**Portable Smoke House**

Built very substantial of No. 20 gauge Extra Heavy Coated Galvanized Sheets—are fireproof, weatherproof, vermin-proof and practically indestructible. Saves half the money spent for meat. Both sizes are 8 foot high at front and 7 foot high at back. Shipped knocked-down in sections without floor. Each section has interlocking edges which are slipped together and bolted. All necessary bolts and nuts for erecting furnished with each smoke house.

**PRICE LIST**

No. 1—Size, 3x3 Feet. Each.....\$54.00  
No. 2—Size, 4x4 Feet. Each..... 70.00

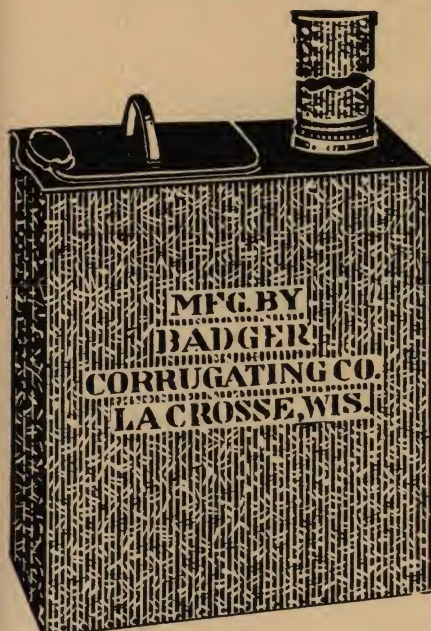
Can also be built in other sizes and sty'es. Send specifications for estimate.







## "BADGER" Tank Heater



The Badger Tank Heater is constructed of 20 Gauge Extra Heavy Coated Galvanized Sheets, closely riveted, seams packed with asbestos and has a gray cast iron top, with large feed door and swing draft.

Built like an air tight heater, they do not require grates and heat the water almost instantly.

It is not necessary to fasten down when used in galvanized stock watering tanks, simply place heater under cross bars.

Furnished with galvanized smoke pipe and shovel for removal of ashes.

We have sold this heater for years and have many satisfied users that claim our heater to be the best they have ever used.

Also made in 18 and 16 gauges. Unless otherwise specified we ship 20 gauge.

### For Wood and Soft Coal

No. A—Size 11" wide, 23" long and 24" high.

No. B—Size 11" wide, 20½" long and 24" high.

No. B is adapted for 2 ft. wide tanks.

## "BADGER"

## Galvanized Dipping Tanks for Sheep and Hogs

All of our tanks have been on the market for years and the same high grade workmanship and extra heavy coated galvanized sheets are used in the construction of our dipping tanks as in all of our other styles. When we send one out, it is with the satisfaction of knowing that it will be appreciated by our customers. Every dipping tank is thoroughly supported by heavy angle iron braces securely attached to top and bottom. At a small additional charge we furnish a galvanized drip board to be used as a platform for stock to walk out on after having been dipped.



### PRICE LIST

List No.	Height Ft.	Length at Top, Ft.	Length at Bot., Ft.	Width at Top, Ft.	Width at Bot., Ft.	List Price
						20 Ga.
B-1	3	6	4	2	1	\$27.00
B-2	3	8	4	2	1	34.20
B-3	4	8	4	2	1	39.60
B-4	4	8	4	2½	1	43.20
B-5	3	10	5	2	1	43.20
B-6	4	10	5	2	1	48.60

To obtain lists for heavier than 20 gauge, add the following: 18 gauge add 30% and for 16 gauge add 60%.





**"BADGER E-Z"**  
**Screw Joint Galvanized Well Casing**  
**EXTRA HEAVY COATED**



"Badger E-Z" Screw Joint makes a connection that can not be forced to telescope or pulled apart under pressure. Every joint is made with an extra swedge turned in; this not only strengthens it but makes it perfectly smooth on the inside, which prevents the rope from being cut.

**PRICE LIST — 20 GAUGE — Shipped Bundled**

Outside Diam., In.	Wt. Per 100 Ft.	List Per Ft.	Outside Diam., In.	Wt. Per 100 Ft.	List Per Ft.
4	175	\$0.39	6½	295	\$0.51
4½	200	.40	6¾	305	.53
4¾	215	.41	7	310	.55
5	225	.42	7½	330	.59
5¼	240	.44	8	335	.62
5½	245	.45	9	410	.68
5¾	260	.47	10	440	.75
6	270	.48	11	495	.81
6¼	280	.50	12	540	.87

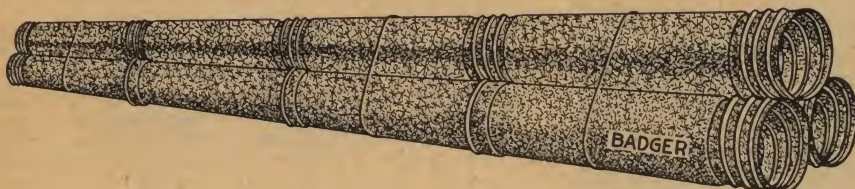
If Screw Joints only are wanted, we make an additional charge of 10%.

For 18 gauge add 30% and for 16 gauge add 60%.

Unless otherwise specified, we ship No. 20 gauge.

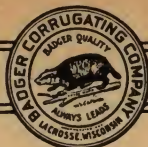
Well Casing Tongs for connecting, \$2.55 list per set (2).

This is the way we ship **"BADGER E-Z SCREW JOINT WELL CASING"**.



Standard bundles contain 36 feet net, consisting of two approximately 12 foot lengths of four 36 inch riveted joints, and one approximately 12 foot length of four 36 inch screw joints—Invoiced as 36 linear feet. Figure lengths when estimating casing requirements, Riveted 11 ft. 3 in. long, Screw Joints 10 ft. 8 in. long.

Any number of feet may be ordered in multiples of three feet.



**"BADGER"**  
**Gravel Shoes**  
 EXTRA HEAVY COATED



Gravel shoes are double thickness on the lower half and the projecting rim of the inner section is rolled out and up over the outer jacket, making a triple thickness of metal on the rim at bottom, which will withstand the most severe driving strain.

They are 36 inches long and furnished with female thread unless otherwise specified.

Diameter Inches	List Price per 36 Inch Joint, 20 Ga., Each
4 to 6½.....	\$2.40
7 to 9.....	3.38
10 to 12.....	4.50

Taper Joints furnished at same prices as Gravel Shoes.

For 18 gauge add 30% and for 16 gauge add 60%.

**"BADGER"**  
**Perforated Well Casing**  
 EXTRA HEAVY COATED



Badger Perforated Well Casing is made in 36 inch screw joints only. Perforations are  $\frac{7}{8} \times \frac{3}{32}$  inch and are spaced 1 inch either way. For price of perforated well casing add the following extras to list prices:

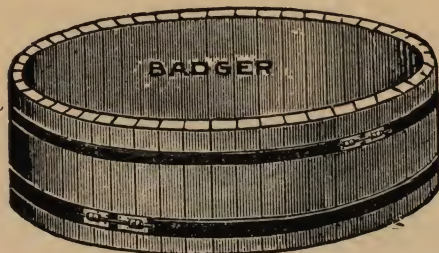
Diam., In.	20 Ga., Per Ft.
4 to 6.....	\$0.06
6¼ to 8.....	.07½
8¼ to 12.....	.09

Not furnished in heavier than No. 20 gauge.





## Wood Round Tanks



To avoid delay please observe the following rules in ordering:

**Give number of tank, length of stave, diameter of bottom, kind and thickness of lumber, also whether round or flat hoops are wanted.**

All tanks are shipped knocked down unless otherwise ordered. Prices in list include the staves, bottoms, dowel pins, hoops with lugs, etc. Prices do not include covers.

Weights shown on this page are for tanks made of 1½ inch material. Add 25% for weight on 2 inch Cypress, Fir and Redwood Tanks.

### All Sizes Listed Show Outside Measurements LIST PRICES OF ROUND TANKS FOR ALL PURPOSES

Standardized Tank List						
No.	Length of Stave	Diam. of Bottom	No. of Hoops	Capacity in Barrels	Weight in Lbs.	List Price
103	2	3	2	2.0	110	\$11.65
103B	2	3½	2	3.0	140	13.90
104	2	4	2	4.9	150	16.90
105	2	5	2	7.0	200	23.20
105B	2	5½	2	10.0	250	25.05
106	2	6	2	10.6	260	29.40
107	2	7	2	14.5	325	36.30
108	2	8	2	19.0	400	43.40
109	2	9	2	24.3	475	50.60
110	2	10	2	30.0	550	60.90
112	2	12	2	41.2	700	77.70
114	2	14	2	59.0	930	112.00
116	2	16	2	80.0	1175	145.00
204	2½	4	2	5.9	200	19.30
205	2½	5	2	9.4	230	26.40
206	2½	6	2	13.7	300	32.80
207	2½	7	2	18.9	375	39.80
208	2½	8	2	24.8	450	47.00
209	2½	9	2	31.5	525	61.00
210	2½	10	2	39.1	625	73.00
212	2½	12	2	55.2	800	105.00
214	2½	14	3	76.0	1150	139.70
216	2½	16	3	94.0	1300	175.00
305	3	5	3	14.0	300	32.20
306	3	6	3	17.0	340	42.35
307	3	7	3	25.0	400	51.70
308	3	8	3	30.0	500	60.00
309	3	9	3	37.0	610	70.00
310	3	10	3	45.0	800	82.00
312	3	12	3	69.0	980	112.00
314	3	14	3	92.0	1270	145.00



## Wood Round Storage or Cistern Tanks

All of our Storage Tanks are well made from selected lumber, and if properly set up will not leak. These tanks, like our Stock Tanks are furnished with round hoops fitted with malleable iron lugs. The capacities are based on tanks with straight staves; if tanks are wanted with taper staves write us. Prices given do not include covers.

Weights given are for 1½ inch material only.

Add 25% for weight on 2 inch Cypress, Fir and Redwood Tanks.

One-half inch Round Hoops furnished on all sizes of tanks up to 8 x 8 feet. Tanks of larger dimensions will be hooped according to size and capacity. Two inch material is recommended for tanks 8 x 8 feet and larger.

All sizes listed show outside measurements.

### LIST PRICES OF ROUND TANKS FOR ALL PURPOSES

#### Standardized Tank List

No.	Length of Stave	Diam. of Bottom	No. of Hoops	Capacity in Barrels	Weight in Lbs.	List Price
404	4	4	4	9.8	250	\$27.30
405	4	5	4	15.6	350	36.80
406	4	6	4	22.0	390	48.50
407	4	7	4	31.0	550	59.00
408	4	8	4	40.0	600	64.80
409	4	9	4	50.0	750	80.00
410	4	10	4	64.0	800	91.00
504	5	4	4	12.0	280	33.75
505	5	5	4	20.0	400	44.40
506	5	6	4	25.2	500	52.80
507	5	7	4	40.0	600	64.80
508	5	8	4	52.4	725	75.60
509	5	9	5	65.0	920	95.00
510	5	10	5	82.0	1100	112.00
604	6	4	4	14.0	330	37.50
605	6	5	4	23.0	500	51.00
606	6	6	5	35.4	550	63.70
607	6	7	5	48.6	700	75.20
608	6	8	5	63.9	800	87.90
609	6	9	5	78.0	1025	107.75
610	6	10	5	98.0	1170	126.00
612	6	12	5	140.0	1260	161.50
705	7	5	5	28.0	550	61.00
706	7	6	5	41.0	600	70.00
707	7	7	6	57.3	800	85.80
708	7	8	6	75.3	900	99.70
709	7	9	6	92.0	1000	125.00
710	7	10	6	118.0	1100	139.00
712	7	12	6	170.0	1400	180.00
806	8	6	6	48.1	725	79.70
807	8	7	6	66.0	825	93.80
808	8	8	6	86.5	1000	117.50
809	8	9	6	110.4	1145	132.90

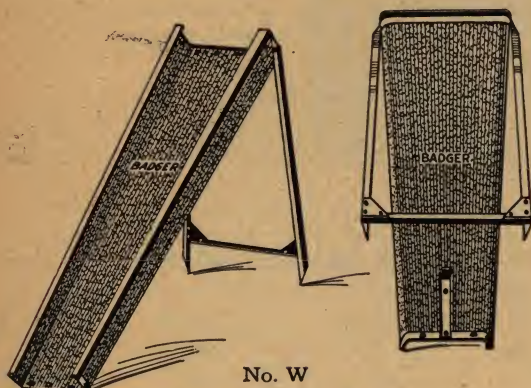
Write for prices on sizes not listed.

We can also furnish Half Round Wagon, Square End and Half Round Stock Tanks, Flat and Conical Covers for Round Tanks.





**"BADGER"**  
**Galvanized Coal Chutes**  
**"Built Extra Strong—Made to Last"**



No. W

22" wide at upper end, 13" at lower end.

Badger Galvanized Window Chutes are used when dumping Coal into a cellar window, or where wagons must drive too close to window to use regular wagon chutes.

Badger Window Chutes are made from the same high grade materials as our Extension and Taper Chutes only that we do not use double reinforcement on the back of Chute. Stand is of Angle Iron construction and hinged to allow use of Chute in most desirable position.

**No. W Made in the Following Length:**

Length, Ft.	Approximate Wt., Lbs.	List Price, Each
5	55	\$14 50
6	65	16.00

**"BADGER"**  
**Galvanized Extension Chutes**

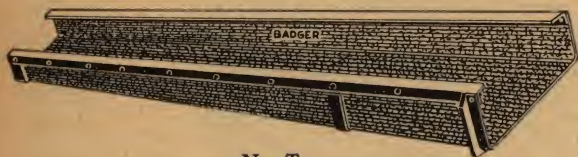
Badger Galvanized Extension Chutes are generally used for soft coal and cord wood. They are made from No. 16 Gauge Full weight Galvanized Sheets with double reinforcement on the back at upper end of each Chute. (See illustration). Angles, Channels and Bands are all extra heavy, making our chutes the strongest and most durable on the market. Each section is an independent Chute, and as outlet end tapers slightly, they easily telescope forming a Chute of any length.



No. E.

18" wide at upper end, 17" at lower end.

**"BADGER"**  
**Galvanized Taper Chutes**



No. T

18" wide at upper end, 12" at lower end.

cellar windows. Each Badger Taper Chute is an independent Chute or can be attached to the foot of any Extension Chute.

**No. E or T Made in the Following Lengths:**

Length, Ft.	Approximate Wt., Lbs.	List Price Each
5	50	\$12.50
6	60	13.50
8	70	16.00
10	80	18.00
12	95	24.00



This illustrates our double reinforcement on the back at upper end of Badger Galvanized Extension and Taper Chutes.

We can build any style or size of Chute.



# Majestic Special Coal Chutes



NO. 60—CLOSED



NO. 50—CLOSED

Majestic Special Coal Chutes supply the demand for an inexpensive coal chute, yet one which will be strong and rigid.

The frames are of Cast Semi-Steel, the hinges are of malleable iron, and the body is made of heavy steel.

The doors used on the Majestic Special chutes are of lighter material than used on the Standard Majestic line, but the pressed design is of such a character as to give rigidity and strength. They are given two coats of asphaltum paint.

The locking device is automatic—the door locking itself when closed. No opening chain is furnished but a pull cord may be secured to the latch when it is desired to unlatch the door from some point away from the chute. These Chutes have straight bottom bodies.

## SIZES AND LIST PRICES

No.	Hopper	Rough Wall Opening	Weight	List Price
60 Glass Panel	no	23"x17"x8"	48 lbs.	\$9.90
50 Steel Panel	no	23"x17"x8"	38 lbs.	6.45

# Majestic Standard Coal Chutes



Nos. 10A and 10C Closed



No. 500 Closed

No. 101B Open

Majestic Standard Coal Chutes are made with either glass panel or solid panel doors. The glass used is one-quarter inch plate. It is set in the steel door against a rubber pad and held in place by a rubber-backed angle iron frame bolted to the door.

This method of securing the glass gives it a rubber cushion to rest against and another to hold it in place. Thus it is practically impossible to break the glass in ordinary use.

When coal is being delivered a steel shield drops down protecting the glass from flying coal.

The solid panel doors are pressed from heavy steel, ribbed to provide strength, and treated to protect them against rust.

The frames and hinges are made of malleable iron, a material which is both unbreakable and rust-proof. These features make malleable iron especially adaptable for use in the construction of coal chute frames because when once in the wall they become a part of the wall itself and will remain there as long as the wall stands.

Malleable iron frames are very rigid and do not change shape under weight of masonry above, thus assuring a perfect door fit at all times.

All models have positive automatic gravity locks which may be released from any point in the basement by attaching a pull cord to the latch chain.

Majestic Coal Chute bodies are made from heavy steel and to make the whole chute still more rust resisting, it is heavily coated with asphaltum paint.

## SIZES AND LIST PRICES

No.	Hopper	Rough Wall Opening	Weight	List Price
10 A Glass Panel	Yes	23"x18"x12"	62 lbs.	\$15.25
10 C Glass Panel	No	23"x18"x12"	51 lbs.	13.80
500 Steel Panel	No	23"x17"x 8"	37 lbs.	8.95
101B Steel Panel	Yes	23"x18"x12"	52 lbs.	11.90
101D Steel Panel	No	23"x18"x12"	41 lbs.	10.50

We can furnish any style or size Majestic Coal Chute.





## Asphalt Shingles, Roofing and Allied Products



Smooth Surfaced

Carried in three grades.

First Grade—35, 45, 55, 65 and 75 lb. rolls.

Second Grade—35, 45, and 55 lb. rolls.

Third Grade—35, 45 and 55 lb. rolls.

Rolls contain 108 square feet, 36 inches wide.

Fixtures included in each roll.

Mineral Surfaced

Surfaced with mineral granules in a large selection of skillfully blended colors—Smooth and Staggered Edge.

### Mineral Surfaced \*Shingles

Surfaced with mineral granules in a large selection of skillfully blended colors.

Individual Shingles

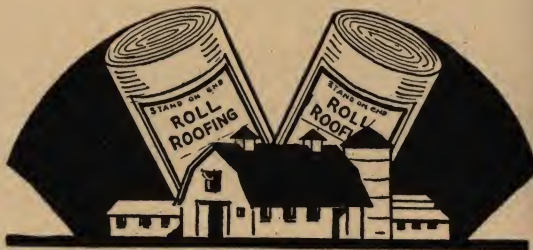
Hex Strips

Square Tabs

Thick Butts

\*Also in Asbestos-Cement

### ROLL ROOFINGS



### BUILDING PAPERS AND FELTS

#### HOUSE SHEATHING—(Coated Felt)

Felt, saturated and coated on both sides with pure asphalt. No fixtures.

36 Inches Wide, 108 Sq. Ft., 33½ Lb. Roll.

#### GIANT SHEATHING—

A high-grade paper of great strength, saturated and coated on both sides.

36 Inches Wide, 500 Sq. Ft., 50 Lb. Roll.

#### RED SHEATHING—GLAZED

Inexpensive unsaturated paper.

36 Inches Wide, 500 Sq. Ft., 25 Lb. Roll.

36 Inches Wide, 500 Sq. Ft., 30 Lb. Roll.

36 Inches Wide, 500 Sq. Ft., 40 Lb. Roll.

#### BLUE PLASTER BOARD—GLAZED

A substantial paper, unsaturated but heavily sized.

36 Inches Wide, 250 Sq. Ft., 30 Lb. Roll.

36 Inches Wide, 500 Sq. Ft., 60 Lb. Roll.

#### DEADENING FELT—

Unsaturated felt in roll.

36 Inch, 1 Lb. per Sq. Yd., 50 Sq. Yd. Roll.

36 Inch, 1½ Lb. per Sq. Yd., 50 Sq. Yd. Roll.

#### WEATHERPAD—

A waterproofed felt insulating blanket, surfaced on one side with cork.

36 Inches Wide, 100 Sq. Ft., 30 Lb. Roll.

#### JETKRAFT—

Light Black Waterproof Paper.

36 Inches Wide, 250 Sq. Ft., 11 Lb. Roll.

#### SAFE-N-DRY—

Two sheets Kraft Paper combined with a very heavy layer of water-proofing asphalt and re-enforced with a layer of woven jute fabric. Waterproof and airtight. Designed for uses requiring a very strong paper.

36 Inches Wide, 250 Sq. Ft., 15 Lb. Roll.

48 Inches Wide, 666 Sq. Ft., 40 Lb. Roll.

#### DIAMOND CORD—

Two sheets of Kraft Paper combined with asphalt, with two layers of re-enforcing cords.

36 Inches Wide, 500 Sq. Ft., 25 Lb. Roll.

### BUILT-UP ROOFS

#### ASPHALT FELT—

Felt, saturated with pure asphalt. All weights carry Underwriter's Label.

No. 15 Lb., 36 Inch, 216 Sq. Ft., 33 Lb. Roll.

No. 15 Lb., 36 Inch, 432 Sq. Ft., 65 Lb. Roll.

No. 30 Lb., 36 Inch, 216 Sq. Ft., 65 Lb. Roll.

#### TARRED FELT—

Felt, saturated with coal tar. All weights carry Underwriter's Label.

No. 14—36 Inch, 216 Sq. Ft., 30 Lb. Roll.

No. 15—32 Inch, 432 Sq. Ft., 65 Lb. Roll.



Building  
Papers  
and  
Felts



STANDARD ROOFING  
ASPHALT  
FELT



Pitch  
and  
Asphalt



TARRED  
FELT

### STANDARD ROOFING ASPHALT—IN DRUMS COAL TAR PITCH—IN METAL CONTAINERS

For Built-up Roofing and Waterproofing work. (Carriers Fire Underwriter's Label).

Full information given in Prepared Roofing price list.





## Roof Cement, Coating & Paint

***It pays to keep  
your Roofs in Repair***



### PLASTIC ROOF CEMENT

For repairing leaky seams, flashings, cuts, rents, etc., of composition or metal roofs. Trowelling consistency.

#### BLACK

Stock sizes: Metal Barrels, Metal Half Barrels, 50 lb. Pails, 25 lb. Pails, 10 lb. cans, 5 lb. cans and 1 lb. cans.

#### RED

Stock sizes: 10 lb. cans and 5 lb. cans.

#### COVERING CAPACITY:

If spread  $1/16$ " thick, 35 lbs. to 40 lbs. per 100 sq. ft.  
If spread  $1/8$ " thick, 70 lbs. to 80 lbs. per 100 sq. ft.  
If spread  $1/4$ " thick, 140 lbs. to 160 lbs. per 100 sq. ft.

### ASBESTOS ROOF COATING

For renewing the surface coat of badly worn roofs. Heavy brushing consistency.

#### BLACK

Stock sizes:—Metal Barrels, Metal Half Barrels, 5 gallon cans and 1 gallon cans.

#### COVERING CAPACITY:

1 Gallon—150 square feet if surface is in fair condition.  
1 Gallon—100 square feet if roofing is old.  
1 Gallon—150 to 200 square feet over metal or tin roofs. (These figures are based on average temperatures).

### ASPHALT ROOF PAINT

For protecting metal or composition roofs and renewing the life of asphalt shingle roofs. Brush application.

#### BLACK

Stock sizes:—Metal Barrels, Metal Half Barrels, 5 gallon cans and 1 gallon cans.

#### GREEN

Stock sizes:—1 gallon cans.

#### COVERING CAPACITY:

Over Wood—about 100 square feet per gallon.  
Over Metal—about 400 square feet per gallon.

### RED METAL PAINT

Very best quality—for the protection of metal flashings, gutters, spouts, and metal roofs. May be applied directly to metal.

Stock sizes:—1 gallon cans.

### BADGER ASPHALT ALUMINUM PAINT

Badger Brand Asphalt Aluminum Paint is made up of an extra fine Aluminum Bronze and Gilsonite Asphalt Vehicle—this is highest quality. Put up in double compartment cans—full measure.

Stock sizes:—5 gallon, 1 gallon, 1 quart and 1 pint cans.

### LAP CEMENT

Liquid asphalt cement for sealing laps of roll roofings.

Stock size:—1 pint cans.

### ROOFING BRUSHES AND MOPS

#### Brushes

Stock sizes:  
3 Knot  
4 Knot  
Handles

#### Mops

Cotton Twine with  
long handles.  
Stock sizes:  
16 ounce  
20 ounce

#### Mop Heads

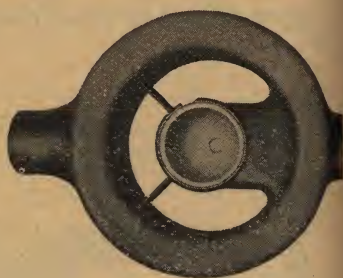
Selected slasher, made  
of white linen thread.  
Stock sizes:  
16 ounce  
20 ounce







## Badger Era-Cast Pipe Furnaces



One-Piece Radiator



Duplex Dump Center Grate

### Essentials of a Perfect Furnace

To be efficient a furnace should have ample grate surface for perfect combustion, sufficient heating or radiating surface to extract all possible heat value from the burning fuel, and air passages of correct design and of ample size to carry the heated air to the rooms to be heated, quickly and without heat loss.

The BADGER has all of the above mentioned features.

### DIMENSIONS AND WEIGHTS

No. of Furnace	20-40	22-44	24-48	26-52	28-56
Diameter of Firepot.....	20"	22"	24"	26"	28"
Diameter of Casing.....	40	44	48	52	56
Diameter of one-piece Radiators.....	28	32	36	40	40
Depth of Firepot.....	12	12	12	13	16
Height of Dome.....	14½	15½	15½	16	17½
Height of one-piece Radiators.....	10½	11	12	12½	12½
Height to top of Radiator.....	48	51	51	53	58
Height to Top of Front.....	49	51	51	53	59
Diameter Smoke Collar.....	8	8	9	9	9
Size of Feed Door.....	11x13	12x14	12x14	13x15	13x15
Size of Ashpit Door.....	14x18	14x21	14x23	14x26	14x26
Approx. Shipping wt., without casing, lbs.....	855	985	1155	1433	1663
Approx. Shipping wt., with casing, lbs.....	942	1084	1267	1557	1805

### HEATING CAPACITY

Sq. In. of Pipe Area.....	429	513	618	733	869
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### CASING MEASUREMENTS

#### OVERALL MEASUREMENTS

FURNACE No.	LOWER CASING	UPPER CASING	LINER
20-40	24¾ x 97¼	23½ x 107¼	36x94
22-44	26¾ x 107¼	23½ x 97¼	36x104
24-48	26½ x 119	23½ x 119	36x116
26-52	26¾ x 129	25¾ x 129	36x126
28-56	30 7/8 x 141¾	27½ x 141¾	36x138

Regular equipment is two-piece corrugated firepot, duplex dump center grate and one-piece radiator.

18" Furnaces shipped direct from Factory equipped only with bar grates and two-piece radiators and cast Base Ring.



## Badger Era Cast Pipeless Furnaces



Pipeless furnace construction is so well known that it needs no explanation here. The greatest single defect in the recirculating idea has been found in those furnaces having casings which are too small in diameter to carry the heat away from the furnace rapidly enough. The inevitable result of this poor design is retarded and insufficient circulation, high fuel consumption and short life of the furnace.

"BADGER" Pipeless Furnaces are designed with large casing areas to deliver the maximum heat in large volumes. Their construction permits erection in the shortest possible time with ease.

### "BADGER" PIPELESS FURNACE

#### Dimensions and Weights

NUMBER OF FURNACE	22-44	24-48
Diameter of Firepot.....	22"	24"
Depth of Firepot.....	12"	12"
Height of Dome.....	15 1/2"	15 1/2"
Height to Top of Castings.....	51 1/2"	51"
Diameter of Smoke Collar.....	8"	9"
Size of Feed Door.....	12"x14"	12"x14"
Size of Ashpit Door.....	14"x21"	14"x23"
Capacities: Cubic feet.....	18,000	24,000
Approx. Wt. with casing and Register lbs.....	1284	1503

#### CASING MEASUREMENTS

Casing Diameter:.....		
Inside.....	44"	48"
Outside.....	52"	56"
*Grating Size.....	36"x36"	40"x40"

\*Subject to change.  
18" and 20" Pipeless Furnaces shipped direct from factory.





## Badger Apex Steel Pipe Furnaces



### RIVETED AND WELDED GAS-TIGHT

#### SPECIFICATIONS

Furnace No.	22	24	27
Inside Diameter of Drum, inches	22	24	27
Overall Height of Drum, inches	50 $\frac{1}{4}$	50 $\frac{1}{4}$	53 $\frac{3}{4}$
Grate Diameter, inches	17 $\frac{1}{4}$	20	22 $\frac{1}{4}$
Casing Diameter, inches	42	45	48
Radiator Height, inches	32 $\frac{1}{2}$	32 $\frac{1}{2}$	32 $\frac{1}{2}$
Radiator Depth, inches	6 $\frac{1}{2}$	6 $\frac{1}{2}$	6 $\frac{1}{2}$
Firepot Depth, inches	17	17	18
Smokepipe Diameter, inches	8	8	8
Size of Feed Door Opening, inches	12x13	12x13	12x13
Size of Ashpit Door Opening, inches	12 $\frac{1}{4}$ x12 $\frac{3}{4}$	12 $\frac{1}{4}$ x12 $\frac{3}{4}$	12 $\frac{1}{4}$ x12 $\frac{3}{4}$
Approximate Shipping Weight, lbs.			
Furnace only	710	760	916
Casing and Bonnet	75	81	88
<b>HEATING CAPACITY</b>			
Square Inches of W. A. Pipe area	461	538	683

#### CASING MEASUREMENTS

##### Overall Dimensions

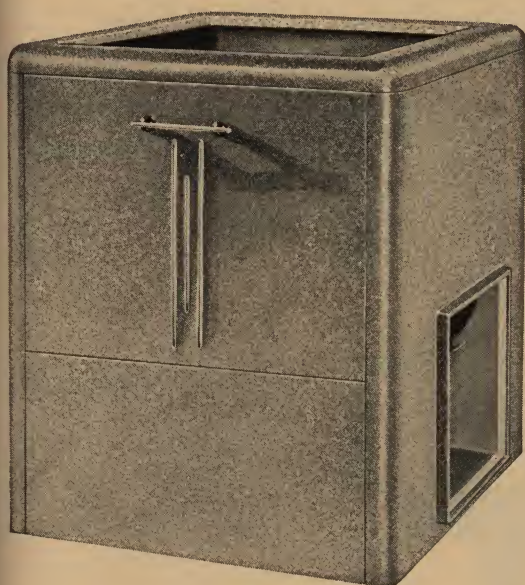
Furnace No.	Lower Casing	Upper Casing	Liner
22	29 $\frac{7}{8}$ x110 $\frac{5}{8}$	22 $\frac{3}{8}$ x110 $\frac{5}{8}$	36x105
24	29 $\frac{7}{8}$ x120 $\frac{1}{8}$	22 $\frac{3}{8}$ x120 $\frac{1}{8}$	36x115
27	29 $\frac{7}{8}$ x130 $\frac{7}{8}$	22 $\frac{3}{8}$ x130 $\frac{7}{8}$	36x126

Write for complete Furnace Catalog.



# LAU

## Package Unit Furnace Blower



With streamlined modern casing, the LAU Package Unit furnace blower sets the pace in styling, plus these nine exclusive features.

- \* Access doors on both sides
- \* Green morocco finish - chrome trim
- Leak proof filter frames
- Variable speed drive
- No metal-to-metal contact
- Low speed - high pressure
- Automatic belt tightening motor mounting
- Automatic cut-out on motor
- Sizes for every need
- \* 400 Series has one large Access Door and Cabinet is Green Morocco finish without chrome trim.

### LAU Package Unit Blowers—Less Control

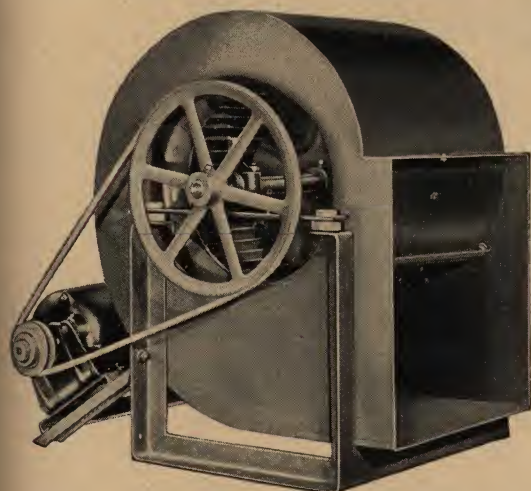
Shipped from La Crosse

Unit No.	Size Furnace	Blower Wheel	H.P.	C.F.M.	Approx. Weight
401	20&22"	10 $\frac{5}{8}$ "x10"	$\frac{1}{8}$	1000	150 lbs.
403	24"	12 $\frac{5}{8}$ "x12 $\frac{1}{2}$ "	$\frac{1}{8}$	1250	200 lbs.
703	26&28"	12 $\frac{5}{8}$ "x12 $\frac{1}{2}$ "	$\frac{1}{4}$	1470	234 lbs.

Equipped with variable speed pulley, blower, motor, blower casing, filters, belt and blower pulley. If Minneapolis-Honeywell Control is wanted this is extra.

## LAU BLOWER ASSEMBLY (with motor)

A low speed, high delivery blower assembly; designed to operate at peak efficiency against the resistances usually found in domestic air



conditioning installations. Sizes for all conditions; variable speed drive; automatic belt tightening device; automatic cut-out on motor. Rubber cushioned—eliminates noise and vibration. Also available with top motor mounting.

### STYLE HVSM - Less Control and Filters

Shipped from La Crosse

Unit No.	Size Furnace	Blower Wheel	H.P.	C. F. M.	Approx. Weight
401HV-SM	20 to 24"	10 $\frac{5}{8}$ "x10"	$\frac{1}{8}$	1000	79 lbs.
12HV-SM	26 & 28"	12 $\frac{5}{8}$ "x12 $\frac{1}{2}$ "	$\frac{1}{4}$	1470	109 lbs.

If Minneapolis-Honeywell Control and 16x25 DUSTOP Filters are wanted these are extra.

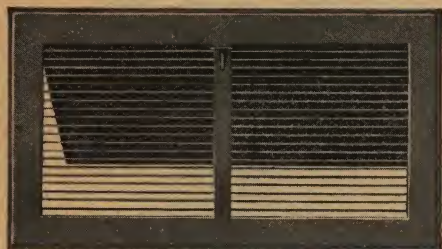
For other LAU Blowers, etc. write for prices.





# U. S. AIR-CONDITIONING REGISTERS (Louver-Type Close-Space)

Affording Non-Vision Feature—Made in Directional-Flow Styles  
at Low Open-Space List Prices

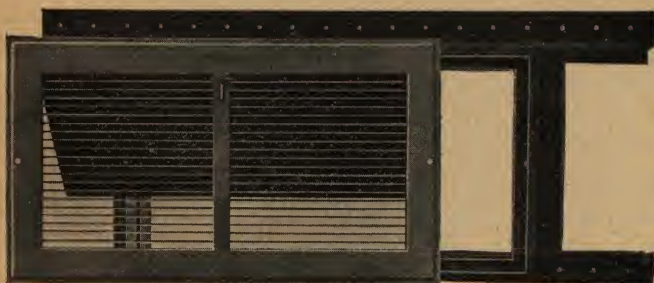


Style 153 - Straight Flow One-Piece Sidewall with Style 101-F Band Steel Frame and Rubber Sealing Gaskets.



Style 101-F Band Steel Frame which attaches to Inside of Stack Head by metal straps through Strap Holes A.

Can also be attached to Stack Head with Metal Screws through Round Holes just outside of Strap Slots.



Style 159 - Straight Flow Two-Piece Sidewall with Style 125-S Seal-Pak Stud Frame and Rubber Sealing Gaskets.



Style 170 - Straight Flow Two-Piece Baseboard with Style 102-B -  $\frac{1}{8}$  inch Flange over Baseboard Frame.

For further information see U. S. Register Catalog.

## LIST PRICES EACH

List Prices include Registers complete with stackhead and studding frames for sidewall and baseboard installations.

List prices of frames for U. S. Air-Conditioning Registers. Use these for deductions from complete register lists when frames are omitted.

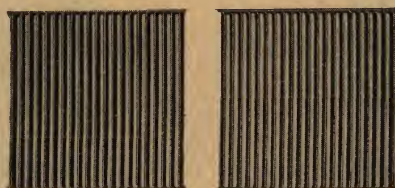
Stackhead Size (Horizontal Dimension First) Inches	Style 153 Register Prime Coat	Style 159 Register Prime Coat	Style 170 Register Prime Coat	Register Head Size Horizontal Size First Dimension	Style 101-F Flat Band Steel Register Frame	Style 125-S Studding Seal-Pak Register Frame	Style 102B $\frac{1}{8}$ inch Base Frame
10 x 4	\$2.45	\$2.95	\$2.95	10 x 4	\$ .30	\$ .80	\$ .80
10 x 5	2.55	3.10	3.10	10 x 5	.30	.85	.85
10 x 6	2.75	3.30	3.30	10 x 6	.35	.90	.90
12 x 5	2.80	3.35	3.35	12 x 5	.35	.90	.90
12 x 6	2.95	3.55	3.55	12 x 6	.35	.95	.95
14 x 5	2.95	3.55	3.55	14 x 5	.35	.95	.95
14 x 6	3.25	3.90	3.90	14 x 6	.40	1.05	1.05
14 x 8	3.40	4.10	4.10	14 x 8	.40	1.10	1.10

Prices indicate sizes in stock. Sizes and styles not carried in stock can be furnished promptly from factory.



## U. S. "SNAP-IN" INSERT PANELS

For further information see U. S. Register Catalog.



(Furnished in Pairs)

By using "Inset Panels" U. S. Louver-Type Registers can be immediately converted into Right Flow, Left-Flow and Multi-Flow Styles. They are furnished for 22° Deflection unless otherwise ordered and will not vibrate at highest air velocities. To attach Inset Panels insert knife or screw driver between bottom of Panels and press Panels into position.

### LIST PRICE INSET PANELS PER PAIR FOR U. S. LOUVER TYPE AIR-CONDITIONING REGISTERS

(One Pair for Each Register)

Finished in Black Japan only as standard

Panel Size	List per Pair
10 x 4	\$ .45
10 x 5	.50
10 x 6	.55
12 x 5	.55
12 x 6	.60
14 x 5	.60
14 x 6	.65
14 x 8	.70

## U. S. AIR-CONDITIONING INTAKE VENT FACES (Louver-Type Close-Space)



Style 175 - Horizontal Bar with  $\frac{7}{8}$  inch Baseboard Flange - Furnished with attaching wood screws

List Prices Each - - less frames

### STYLES 175

Wall Opening Size:

Horizontal Dimension  
First) Inches

	Prime Coat
10 x 6	\$1.85
12 x 5	1.95
12 x 6	2.05
12 x 8	2.25
14 x 5	2.05
14 x 6	2.25
14 x 8	2.40
24 x 6	3.30
24 x 8	3.75
30 x 5	3.40
30 x 6	3.95

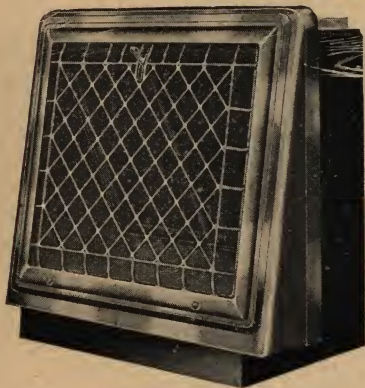
Prices indicate sizes in stock. Sizes and styles not carried in stock can be furnished promptly from factory.





## Jones-National Registers

Complete with double boxes attached. Made of cold rolled steel, perfectly formed and embossed.



First Floor—One Way



Second Floor—One Way

For further information  
See U. S. Reg. Cat.

Write for Complete United  
States Register Catalog.

### List Prices JONES-NATIONAL REGISTERS, One-Way

1 1/8" BASE EXTENSION (For Second Floor)

Cat. No.	Size of Face in Inches	Size of Single Wall Stack in Inches	Catalog Number of Double Wall Stack	Black Japan	White Japan	Lacquered Bronze Ant. Brass	Oxidized Copper	Nickel	Gross Shipping Weight in pounds
853	10 x 8	3x10 or 3 1/2 x 10	No. 7 or No. 5	\$3.50	\$4.20	\$4.20	\$5.00	\$5.00	8
852	12 x 8	3x12 or 3 1/2 x 12	No. 8 or No. 6	4.00	4.80	4.80	5.50	5.50	9
812	12 x 9	3x12 or 3 1/2 x 12	No. 8	4.50	....	5.25	6.00	....	9 1/2

2 1/4" BASE EXTENSION (For First Floor)

Cat. No.	Size of Face in Inches	Size of Basement Pipe in Inches	Size of Boot in Inches	Size of Top Collar	Black Japan	White Japan	Lacquered Bronze Ant. Brass	Oxidized Copper	Nickel	Gross Shipping Weight in pounds
853 1/2	10 x 8	8	6 1/8 x 10 5/8	Closed	\$4.00	\$4.50	\$4.50	\$5.50	\$5.50	8 1/2
852 1/2	12 x 8	9	6 1/8 x 12 5/8	No. 7 or 5	5.00	5.50	5.50	6.50	....	9 1/2
854 1/2	12 x 9	9	6 1/8 x 12 5/8	No. 7 or 5	5.25	5.75	5.75	6.75	....	10

2 3/8" BASE EXTENSION (For First Floor)

Cat. No.	Size of Face in Inches	Size of Basement Pipe in Inches	Size of Boot in Inches	Size of Top Collar	Black Japan	White Japan	Lacquered Bronze Ant. Brass	Oxidized Copper	Nickel	Gross Shipping Weight in pounds
855	12 x 10	10	6 3/8 x 12 5/8	No. 7 or 5	\$6.25	\$6.75	\$6.75	\$8.00	....	10 1/2

3 1/4" BASE EXTENSION (For First Floor)

Cat. No.	Size of Face in Inches	Size of Basement Pipe in Inches	Size of Boot in Inches	Size of Top Collar	Black Japan	White Japan	Lacquered Bronze Ant. Brass	Oxidized Copper	Nickel	Gross Shipping Weight in pounds
852 1/4	12 x 8	9	7 x 12 5/8	No. 7 or 5	\$5.50	\$6.00	\$6.00	7.00	....	8 1/2
854 1/4	12 x 9	9 or 10	7 x 12 5/8	No. 7 or 5	5.75	....	6.25	7.25	....	10
855 1/4	12 x 10	10	7 x 12 5/8	No. 7 or 5	6.50	....	7.00	8.00	....	11
856	13 x 11	12	7 x 13 5/8	No. 8 or 6	7.00	....	7.75	9.00	....	12

5 1/4" BASE EXTENSION (For First Floor)

Cat. No.	Size of Face in Inches	Size of Basement Pipe in Inches	Size of Boot in Inches	Size of Top Collar	Black Japan	White Japan	Lacquered Bronze Ant. Brass	Oxidized Copper	Nickel	Gross Shipping Weight in pounds
8556	13 x 11	12	9 x 13 5/8	No. 8 or 6	\$8.00	....	\$8.75	\$10.00	....	12
8557	14 x 12	14	9 x 14 5/8	No. 8 or 6	9.00	....	10.00	....	....	13

JONES-NATIONAL REGISTERS without boxes or Fronts only, take same List as corresponding Sizes in National Registers. See Page 135.

Be sure to always order by Catalog Number.

### List Prices Jones-National Register Boxes (Without Fronts) One-Way

Cat. No.	853	852	812	853 1/2	852 1/2	854 1/2	855	852 1/4	854 1/4	855 1/4	856	8556	8557
List	\$2.30	\$2.40	\$2.50	\$2.30	\$2.90	\$2.90	\$3.20	\$3.20	\$3.20	\$3.20	\$3.30	\$3.80	\$3.95

Prices indicate sizes in stock—styles and sizes not listed can be shipped promptly from factory.



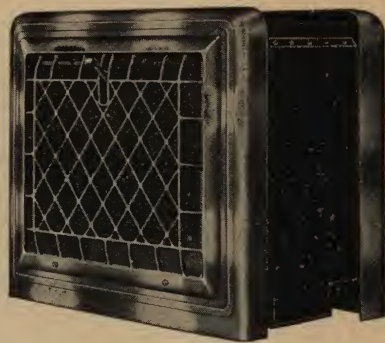


## Jones-National Registers

Complete with double ventilated boxes attached. Made of cold rolled steel, perfectly formed and embossed.



FIRST FLOOR—TWO WAY



SECOND FLOOR—TWO WAY

For further  
information  
See U. S. Reg.  
Cat.

### List Prices JONES-NATIONAL REGISTERS, Two-Way

#### 1 7/8" BASE EXTENSION (For Second Floor)

Cat. No.	Size of Faces in Inches	Size of Single Wall Stack in Inches	Catalog Number of Double Wall Stack	Black Japan	White Japan	Lacquered Bronze Ant. Brass	Oxidized Copper	Gross Shipping Weight in pounds
2-853	2-10 x 8	3x10 or 3 1/2 x10	No. 7 or 5	\$5.75	\$6.50	\$6.50	\$8.50	10 1/2
2-852	2-12 x 8	3x12 or 3 1/2 x12	No. 8 or 6	6.50	7.50	7.50	9.50	12 1/2
2-812	2-12 x 9	3x12 or 3 1/2 x12	No. 8	7.00	....	8.00	....	13

#### 2 1/4" BASE EXTENSION (For First Floor)

Cat. No.	Size of Faces in Inches	Size of Basement Pipe in Inches	Size of Boot in Inches	Size of Top Collar	Black Japan	White Japan	Lacquered Bronze Ant. Brass	Oxidized Copper	Gross Shipping Weight in pounds
2-852 1/2	2-12 x 8	10	8 1/2 x12 1/2	No. 7 or 5	\$7.50	....	\$8.50	....	13
2-854 1/2	2-12 x 9	10 or 12	8 1/2 x12 1/2	No. 7 or 5	8.50	....	9.50	\$11.50	14

#### 2 3/8" BASE EXTENSION (For First Floor)

Cat. No.	Size of Faces in Inches	Size of Basement Pipe in Inches	Size of Boot in Inches	Size of Top Collar	Black Japan	White Japan	Lacquered Bronze Ant. Brass	Oxidized Copper	Gross Shipping Weight in pounds
2-855	2-12 x 10	12	9x12 3/8	No. 7 or 5	\$10.00	....	\$11.00	\$13.00	16 1/2

#### 3 1/4" BASE EXTENSION (For First Floor)

Cat. No.	Size of Faces in Inches	Size of Basement Pipe in Inches	Size of Boot in Inches	Size of Top Collar	Black Japan	White Japan	Lacquered Bronze Ant. Brass	Oxidized Copper	Gross Shipping Weight in pounds
2-852 1/4	2-12 x 8	10 or 12	10 1/2 x12 3/4	No. 7 or 5	\$8.40	....	\$9.40	\$11.40	13
2-854 1/4	2-12 x 9	10 or 12	10 1/2 x12 3/4	No. 7 or 5	9.40	....	10.40	12.40	14
2-855 1/4	2-12 x 10	12	10 1/2 x12 3/4	No. 7 or 5	10.50	....	12.00	14.00	17
2-856	2-13 x 11	14	10 1/2 x13 3/4	No. 8 or 6	11.50	....	13.00	15.50	18

#### 5 1/4" BASE EXTENSION (For First Floor)

Cat. No.	Size of Faces in Inches	Size of Basement Pipe in Inches	Size of Boot in Inches	Size of Top Collar	Black Japan	White Japan	Lacquered Bronze Ant. Brass	Oxidized Copper	Gross Shipping Weight in pounds
2-8556	2-13 x 11	14	14 3/4 x13 3/4	No. 8 or 6	\$14.00	....	\$15.00	\$17.00	18 1/2
2-8557	2-14 x 12	16	14 3/4 x14 3/4	No. 8 or 6	16.00	....	17.00	....	19 1/2

### List Prices Jones-National Register Boxes (Without Fronts) Two-Way

Cat. No...	2-853	2-852	2-812	2-852 1/2	2-854 1/2	2-855	2-854 1/4	2-855 1/4	2-856	2-8556	2-8557
List.....	\$2.30	\$2.40	\$2.50	\$2.95	\$2.95	\$3.60	\$3.85	\$3.85	\$4.10	\$4.60	\$4.90

Prices indicate sizes in stock—styles and sizes not listed can be shipped promptly from factory.



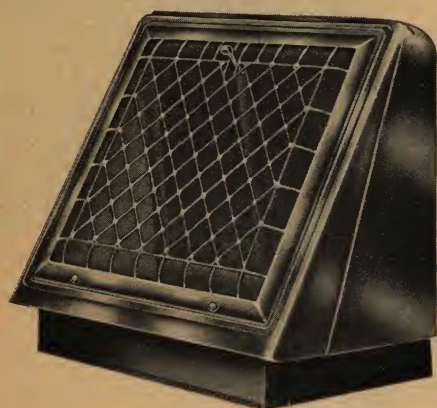


## Jones-National "Special" Baseboard Registers

Require No Partition Spaces

Can be installed in old houses as easily as floor registers, without cutting joists, sills, studding, or lath and plaster.

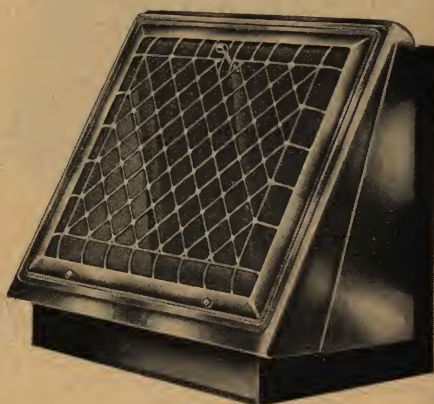
Sets outside of partition, not in it.



First Floor

## Jones-National "Flat Stud" Registers

Retains capacity with two-inch stud. The front is deeper to make up loss in partition depth.



First Floor

For further  
information  
see  
U. S. Reg.  
Cat.

### LIST PRICES

## Jones-National "Special" Baseboard Registers

Furnished Only Complete with Double Metal Boxes

### FIRST FLOOR

Cat. No.	Size of Register Face In Inches	Size of Basement Pipe In Inches	Size of Boot In Inches	Black Japan	Lacquered Bronze Antique Brass	Oxidized Copper	Gross Weight Packed for Shipping
753 1/2	10 x 8	8	6 1/2 x 10 3/4	\$5.50	\$6.00		8
754 1/2	12 x 9	9	6 1/2 x 12 3/4	6.75	7.25	\$8.25	10
755	12 x 10	10	6 3/4 x 12 3/4	7.75	8.25	9.50	11
756	13 x 11	12	7 x 13 3/4	8.50	9.25	10.50	12
757	14 x 12	12 or 14	7 1/2 x 14 3/4	10.00	11.00	12.00	13

### SECOND FLOOR

Cat. No.	Size of Register Face in inches	Size of Single Wall Stack	Size of Double Wall Stack	Black Japan	Lacquered Bronze Antique Brass	Oxidized Copper	Gross Weight in pounds Packed for Shipping
753	10 x 8	3 x 10 or 3 1/2 x 10	No. 7	\$5.00	\$5.50	....	8
752	12 x 8	3 x 12 or 3 1/2 x 12	No. 8	5.50	6.25	....	10
712	12 x 9	3 x 12 or 3 1/2 x 12	No. 8	6.00	6.75	....	10 1/2

### LIST PRICES

## Jones-National "Flat Stud" Baseboard Registers

Furnished Only Complete with Double Metal Boxes

### FIRST FLOOR (with Boxes)

Cat. No.	Size of Register Face In Inches	Size of Basement Pipe In Inches	Size of Boot In Inches	Black Japan	Lacquered Bronze Antique Brass	Oxidized Copper	Gross Weight Packed for Shipping
653 1/2	10 x 8	8	6 1/2 x 10 3/4	\$5.50	\$6.00	....	8
655	12 x 10	10	6 3/4 x 12 3/4	7.75	8.25	....	11
656	13 x 11	12	7 x 13 3/4	8.50	9.25	....	12

Jones National "Flat Stud" Registers can also be furnished for second floor—Shipped direct from factory. Prices indicate sizes in stock. Sizes and styles not carried in stock can be furnished promptly from factory.



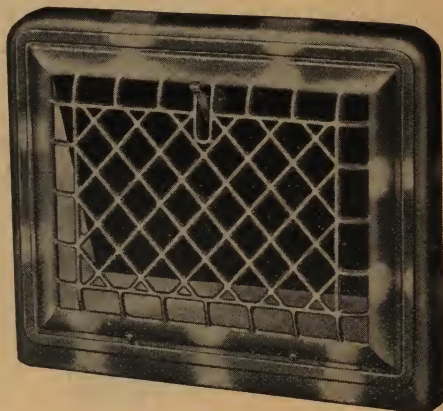


# National Baseboard Registers

MADE OF PRESSED COLD ROLLED STEEL  
Deeply Embossed Narrow Bars



First Floor Style



Second Floor Style

For  
further  
information  
See  
U. S. Reg.  
Cat.

## List Prices NATIONAL BASEBOARD REGISTERS

### 1 1/4" BASE EXTENSION (For Second Floor)

Cat. No.	Size of Face in Inches	Size of Warm Air Pipe in In.	Black Japan	White Japan	Oxidized Copper	Laquered Bronze Antique Brass	Nickel	Gross Weight per Register in pounds
53	10 x 8	3 1/2 x 10 or No. 7	\$2.00	.....	\$3.50	\$2.35	\$3.50	3
52	12 x 8	3 1/2 x 12 or No. 8	2.40	2.90	3.95	2.90	.....	3 1/4
54	12 x 9	3 1/2 x 12 or No. 8	2.50	.....	4.00	3.00	.....	3 1/2

### 2 1/4" BASE EXTENSION (For First Floor)

Cat. No.	Size of Face in Inches	Size of Warm Air Pipe in In.	Black Japan	White Japan	Oxidized Copper	Laquered Bronze Antique Brass	Nickel	Gross Weight per Register in pounds
53 1/2	10 x 8	8	\$2.00	\$2.35	.....	\$2.35	\$3.50	3 1/4
52 1/2	12 x 8	8 or 9	2.40	2.90	\$3.95	2.90	3.95	3 1/2
54 1/2	12 x 9	9	3.00	3.50	4.50	3.50	4.50	3 3/4

### 2 3/8" BASE EXTENSION (For First Floor)

Cat. No.	Size of Face in Inches	Size of Warm Air Pipe in In.	Black Japan	White Japan	Oxidized Copper	Laquered Bronze Antique Brass	Nickel	Gross Weight per Register in pounds
55	12 x 10	10	\$3.75	\$4.35	\$5.50	\$4.35	\$6.10	4

### 3 1/4" BASE EXTENSION (For First Floor)

Cat. No.	Size of Face in Inches	Size of Warm Air Pipe in In.	Black Japan	White Japan	Oxidized Copper	Laquered Bronze Antique Brass	Nickel	Gross Weight per Register in pounds
52 1/4	12 x 8	9	\$3.00	\$3.50	\$4.50	\$3.50	.....	3 1/2
54 1/4	12 x 9	9 or 10	3.00	3.50	4.50	3.50	\$4.50	3 3/4
55 1/4	12 x 10	10	4.00	.....	5.75	4.60	.....	4 1/4
56	13 x 11	12	4.50	5.25	6.75	5.25	.....	4 1/2

### 5 1/4" BASE EXTENSION (For First Floor)

Cat. No.	Size of Face in Inches	Size of Warm Air Pipe in In.	Black Japan	White Japan	Oxidized Copper	Laquered Bronze Antique Brass	Nickel	Gross Weight per Register in pounds
556	13 x 11	12 or 14	\$5.25	.....	\$7.50	\$6.00	.....	4 3/4
557	14 x 12	14 or 16	6.50	.....	8.50	7.50	.....	5 1/2

Order by Catalog Number. Prices indicate sizes in stock. Sizes and styles not carried in stock can be furnished promptly from factory.



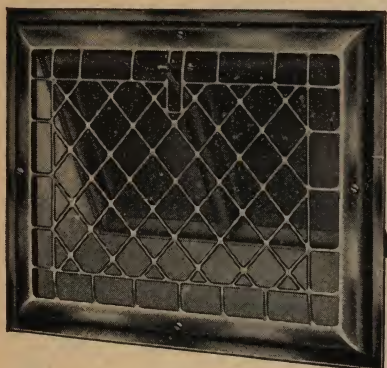


## NATIONAL CONVEX REGISTERS

TO BE PLACED ABOVE BASEBOARD

To Match the Jones-National and National Either Horizontal or Vertical

The first figure given in numbering denotes the width of the register; the last figure denotes the height.  
For further information see U. S. Reg.



List Prices of National Convex Registers

Size	Fits Register Box Inches	Wall Pipe	Black Japanned	White Japanned	Lacquered Bronze Antique Brass	Nickel
8x10	8x10	3 1/2"x10	\$1.50	\$1.80	\$1.80	\$2.85
10x 8	10x 8	3 1/2"x10	1.50	1.80	1.80	2.85
8x12	8x12	3 1/2"x12	1.75	2.10	2.10	...
12x 8	12x 8	3 1/2"x12	1.75	2.10	2.10	3.30
9x12	9x12	3 1/2"x12	1.90	2.30	2.30	...
12x 9	12x 9	3 1/2"x12	1.90	2.30	2.30	3.60
10x12	10x12	3 1/2"x13	2.20	...	2.65	...
12x10	12x10	3 1/2"x13	2.20	...	2.65	...

Horizontal Style

Made of Pressed Cold-Rolled Steel

## NATIONAL BASEBOARD COLD-AIR FACES

Made of Pressed Cold—Rolled Steel

Furnished without Boxes

For further information see U. S. Reg. Cat.



LIST PRICES

Catalog Number	Size of Face Opening	Extension From Plaster in Inches	Black Japanned	Lacquered Bronze Antique Brass	Electroplated Oxidized Copper
1014	10x14	5	\$2.50	\$3.00	\$4.50
1030	10x30	5	5.00	6.25	...
1226	12x26	5	5.50	6.60	...
1232	12x32	5	7.00	...	11.00

## NATIONAL BASEBOARD VENTILATING FACES (New Style)

Made of Embossed Steel

List Prices of National Baseboard Ventilating Faces — For further information see U. S. Reg. Cat.  
3/8" DEEP - BASEBOARD EXTENSION

Catalog No.	Measurement Over All	Black Japan	White Japan	Electro-Plated Oxidized Copper	Lacq. Bronze Antique Brass
514	5x16 1/4	\$1.00	\$1.40	\$2.00	\$1.40
524	5x25 3/4	1.75	...	...	2.25
530	5x31 1/4	2.15	3.00	4.60	3.00
614	6 1/4 x16 1/4	1.35	...	...	1.75
624	6 1/4 x25 3/4	2.10	...	...	2.60
630	6 1/4 x31 1/4	2.50	...	...	3.35



Prices indicate sizes in stock. Sizes and styles not carried in stock can be furnished promptly from factory.





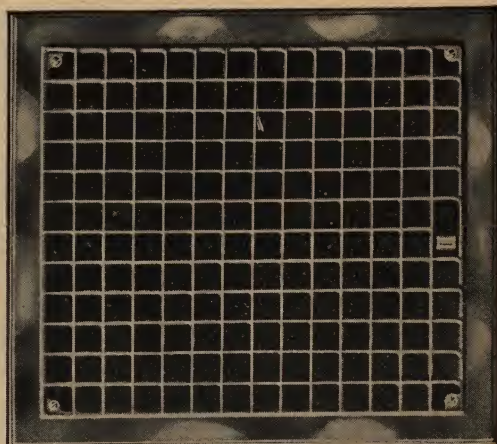
## New U. S. Pressed Steel Floor Registers

For further information see U. S. Reg. Cat.

Deeply embossed narrow bars—maximum capacity.

The New Style U. S. STEEL FLOOR REGISTERS are constructed of cold rolled steel, perfectly perforated and deeply embossed to give maximum strength and capacity. When installed, they fit snugly to the finished floor. Note the beveled edge of register face, which makes unnecessary the sinking of the face in the floor, as is necessary with cast registers.

*Do not break and easier to handle and install.*



Style 300

### LIST PRICES EACH

Size of Opening in inches	Black Japan		Electroplated Oxidized Copper		White Japan		Oak Grain	
	Complete Register	Face Only	Complete Register	Face Only	Complete Register	Face Only	Complete Register	Face Only
4 x 8	\$1.45	\$ .80					\$1.55	\$ .90
6 x 8	1.55	.90						
8 x 10	1.70	1.10			\$1.65	\$1.00	1.85	1.25
8 x 12	1.90	1.30	2.55	1.95	1.85	1.25	1.85	1.25
9 x 12	2.15	1.50	2.90	2.25	2.35	1.70	2.05	1.45
10 x 12	2.40	1.70	3.25	2.55	2.60	1.90	2.35	1.70
10 x 14	3.40	2.00			3.65	2.25	2.60	1.90
12 x 12	3.60	2.20					3.65	2.25
12 x 14	4.25	2.50	5.50	3.75			3.85	2.45
12 x 15	4.75	2.60				2.80	4.55	2.80
12 x 16	5.25					2.90		
14 x 16	6.85	3.10						
14 x 18	8.10	3.40				3.45	7.20	3.45
14 x 20	9.35	3.70						
16 x 18	9.90	3.80						
16 x 20		4.00						4.15
16 x 24		4.40						4.25
18 x 24		4.80						4.50
20 x 24		5.40						4.95
								5.40
								6.05

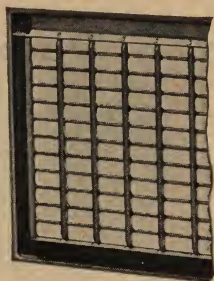
Floor Register Faces 12" x 14" size and larger are strongly reinforced with heavy supporting bars.



Style 305

Made of slightly lighter steel than Regular Steel Faces. Supporting bars are welded to the face and spaced two inches apart.

A Superior Product.



Rear View Showing Supporting Bars

## U. S. Special Steel Faces

For further information see U. S. Reg. Cat.

Made in popular cold air sizes.

### LIST PRICE EACH

Size	Round Pipe Size Inches	Black Japanned	Oak Grain
6x30	12	\$3.40	\$3.80
8x24	12	3.20	3.60
8x30	14	3.60	4.05
10x24	14	3.40	3.80
10x30	16	3.75	4.20
12x14	12	2.50	2.80
12x24	16	3.75	4.20
12x30	18	4.00	4.50
14x30	20	4.60	5.15
16x30	20	5.50	6.15
18x30	22	6.10	6.85
20x30	24	6.70	7.50
24x30	26	8.80	9.85

Prices indicate sizes in stock. Sizes and styles not carried in stock can be furnished promptly from factory.





## U. S. Cast Checker Faces

For further information see U. S. Reg. Cat.

### LIST PRICES EACH

Floor Size in Inches	Size of Round Pipe in In.	L. B. A. B.
8x30	14	\$4.05
10x24	14	3.80
10x30	16	4.20
12x14	12	2.80
12x18	14	3.35
12x24	16	4.20
12x30	18	4.50
14x30	20	5.15
16x30	20	6.15
18x30	22	6.85
20x30	24	7.50



Style 505

## U. S. Wood Cold Air Faces

For further information see U. S. Reg. Cat.

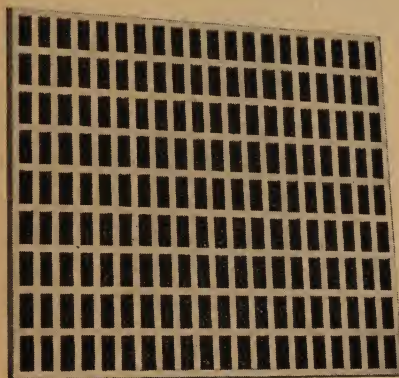
Made of the very best selected grades of oak and maple thoroughly seasoned and kiln dried.

### LIST PRICES EACH

Floor Opening in Inches	List Price	Floor Opening in Inches	List Price
10x30	\$2.09	20x30	\$4.17
12x30	2.50	24x30	5.00
14x30	2.92	24x72	12.00
16x30	3.34	72x30	15.00
18x30	3.75	72x36	18.00

We can furnish any sizes that can be cut from above stock at a list price of \$1.00 per sq. ft.

Above sizes as Listed indicate that the Deep Strips run the long way of the Face.



U. S. WOOD FACE

## U. S. Adjustable Ceiling Ventilators

For further information see U. S. Reg. Cat.

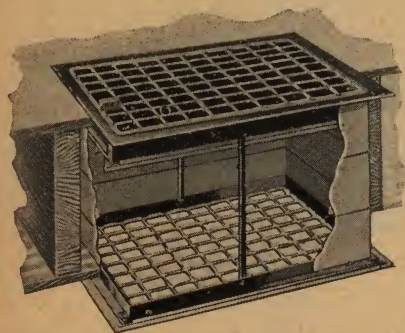
Each U. S. Adjustable Ceiling Ventilator consists of a Black Japanned Steel Floor Register and a White Japanned Steel Face attached to an adjustable tin box, adjusting from 7 to 12 inches. It is the easiest to install of all ceiling registers. NO TOOLS NECESSARY after the opening has been cut. NO HOOKS or STEP-LADDERS needed.

Designed for the purpose of circulating air between the first and second floor rooms.

### LIST PRICES EACH

Size of Opening in Inches	List Price	Size of Opening in Inches	List Price
8x10	\$2.50	10x12	\$3.85
9x12	3.25	10x14	4.50
		12x14	5.15

Prices indicate sizes in stock—styles and sizes not listed can be shipped promptly from factory.



## Register Operating Accessories

### INDICATOR HANDLES



Black Japan 17c per pair List.

### PULLEYS



### Sidewall Pulleys

Pulleys are made of Solid Brass and furnished in Bright Brass.

Sidewall and Ceiling Pulleys small size List 50c per pair.

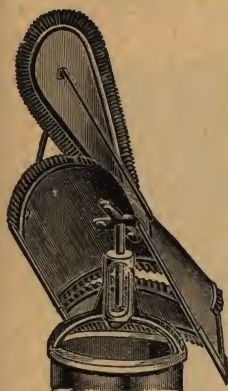


### Ceiling Pulleys





## Iwan's Revolving Chimney Top



When the wind passes through the sloped passage of the Hood, it creates a strong upward draught, allowing free passage of smoke. The Hood also protects the chimney from rain, sleet and snow.

### List Price per Dozen

Inches...	6	7	8
Top complete...	\$24.00	\$26.00	\$28.00
	\$32.00	\$34.00	\$40.00
Inches...	6	7	8
Mountings.....	\$13.00	\$13.50	\$15.00
	\$16.50	\$18.00	\$22.00

If iron mountings are ordered Pattern of Hood and Vane will be forwarded free of charge, if wanted.

## No. 2 Adams Ash Pit Doors

Cast Iron—Black Lacquer Finish



Front View



Rear-Side View

Each door equipped with two Anchor Irons, 4" long. Door fits tight in frame. Ash Pit Doors packed one dozen in a crate.

Size	Weight Per Dozen	List Per Dozen
8x8 in.....	78 lbs.....	\$ 9.00
8x10 in.....	92 lbs.....	11.00
8x12 in.....	107 lbs.....	15.00
10x12 in.....	123 lbs.....	17.00

## No. 1 Adams Ash Dumps



### Double Acting Automatic

Size outside 7x9 inches; size inside 4½x6½ inches. Weight per dozen 36 lbs. List price per dozen.....\$7.00

## "Best" Chimney Cap



Packed half dozen in crate.

It is made in three sizes and the legs have a radial adjustment, so that each size will fit any chimney up to the largest size for which it is designed.

No. 10, Collar for 7 inch Pipe  
No. 10½, Collar for 8 inch Pipe  
No. 12, Collar for 10 inch Pipe

## No. 1 Adams Furnace End Check Damper

Full Size Openings  
Black Lacquer Finish

Size	Wt. Lbs.	List Each
8"	5	\$1.60
9"	5½	1.85

## No. 3 Adams Furnace Check Damper

REVERSIBLE FOR  
VERTICAL OR  
HORIZONTAL SMOKE  
PIPE

Black Lacquer Finish



Size	Diam. of Opening	Wght. of Lbs. Ea.	List Price
7 and 8 inch...	5½ in..	3...	\$1.00
9 and 10 inch...	5½ in..	3...	1.00

## No. 10 Adams Dome Dampers



Damper Operated by Geared Mechanism from either Front, Side or Middle of Fire Place

Front Inches	Back Inches	Depth Inches	Throat Opening Inches	Flue Size Inches	Weight Each Pounds	List Price Each
30	23	13¼	24x10	8x12	37	\$6.00
36	29	13¼	30x10	8x12	42	7.00
42	35	13¼	36x10	8x16	53	9.00





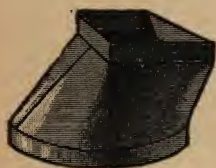
## Single Fittings for First Floor Baseboard Registers



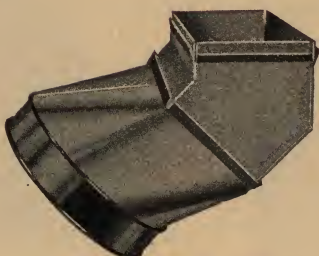
Cut 20 Head



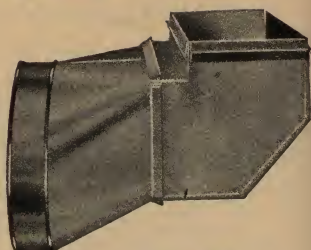
Cut 30 Head



Cut 5 Boot



Cut 5 Boot with Cut 1 Angle



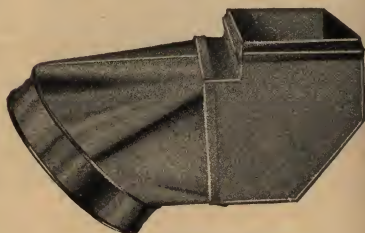
Cut 5 Boot with Cut 6 Elbow



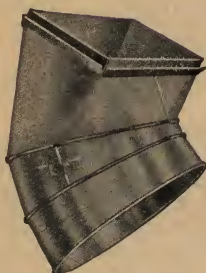
Cut 7 Boot



Cut 7 Boot with Cut 1 Angle



Cut 7 Boot with Cut 6 Elbow



Cut 57 Boot with Reversible Collar



Cut 18 Boot

Above Illustrated First Floor Register Heads Fit National Baseboard Registers.

The Single Boots above illustrated fit the above-mentioned Baseboard Registers and also JONES-NATIONAL Registers. Special attention is called to the possible various uses of the Cuts 5 and 7 Boots when used with either angle or elbow or without angle or elbow. List Prices, Page 141.



## List Prices of Single Fittings for First Floor Baseboard Registers

## One-Way Box or Head

Size of Reg.	Base Ext'n	Jones Nat'l	Nat'l	Size of Warm Air Pipe	Cut 20 Head Top Closed	Cut 20 Head with Top Collar	Single Boots 5-7	Single Boots 18-57	Single Elbow Cut 6	Single Angle Cut 1
8 x 10	2 1/4"	853 1/2	53 1/2	8"	\$1.35	\$1.60	\$1.80	\$2.15	\$1.30	\$1.15
8 x 12	2 1/4"	852 1/2	52 1/2	9"	1.50	1.75	1.95	2.25	1.45	1.30
8 x 12	3 1/4"	852 1/4	52 1/4	9" or 10"	1.60	1.95	2.10	2.40	1.60	1.45
9 x 12	2 1/4"	854 1/2	54 1/2	9"	1.50	1.75	1.95	2.25	1.45	1.30
9 x 12	3 1/4"	854 1/4	54 1/4	9" or 10"	1.60	1.95	2.10	2.40	1.60	1.45
10 x 12	2 1/4"	855	55	10"	1.50	1.75	1.95	2.25	1.45	1.30
10 x 12	3 1/4"	855 1/4	55 1/4	10"	1.60	1.95	2.10	2.40	1.60	1.45
11 x 13	3 1/4"	856	56	12"	1.75	2.10	2.25	2.55	1.75	1.60
11 x 13	5 1/4"	8556	556	12" or 14"	2.10	2.50	2.50	2.85	1.90	1.85
12 x 14	5 1/4"	8557	557	12" or 14"	2.35	2.75	2.60	2.95	2.10	2.00

## List Prices of Single Fittings for First Floor Baseboard Registers

## Two-Way Box or Head

Size of Reg.	Base Ext'n	Jones Nat'l	Nat'l	Size of Warm Air Pipe	Cut 30 Head	Cut 30 Head with Top Collar	Single Boots 5-7	Single Boots 18-57	Single Elbow Cut 6	Single Angle Cut 1
2- 8 x 10	2 1/4"	2-853 1/2	2-53 1/2	9"	\$1.60	\$2.00	\$2.20	\$2.50	\$1.60	\$1.45
2- 8 x 12	2 1/4"	2-852 1/2	2-52 1/2	10"	1.90	2.30	2.40	2.75	1.75	1.60
2- 8 x 12	3 1/4"	2-852 1/4	2-52 1/4	10" or 12"	2.00	2.50	2.50	2.85	1.85	1.70
2- 9 x 12	2 1/4"	2-854 1/2	2-54 1/2	10" or 12"	1.90	2.30	2.40	2.75	1.75	1.60
2- 9 x 12	3 1/4"	2-854 1/4	2-54 1/4	10" or 12"	2.00	2.50	2.50	2.85	1.85	1.70
2-10 x 12	2 1/4"	2-855	2-55	12"	1.90	2.30	2.40	2.75	1.75	1.60
2-10 x 12	3 1/4"	2-855 1/4	2-55 1/4	12"	2.00	2.50	2.50	2.85	1.85	1.70
2-11 x 13	3 1/4"	2-856	2-56	14"	2.20	2.65	2.65	3.05	2.10	1.95
2-11 x 13	5 1/4"	2-8556	2-556	14"	2.90	3.45	3.50	4.00	2.30	2.15
2-12 x 14	5 1/4"	2-8557	2-557	14" or 16"	3.10	3.75	3.75	4.30	2.45	2.30

List prices cover boots with standard size collars. Additional charge of \$.20 each for boot collars other than standard. Add \$.50 net for heads wider or narrower than regular. For Galvanized Steel add 25% to above lists subject to regular discount.

For Illustrations, see pages 140 and 144.





## Double Wall Pipe and Fittings

The Pipe Illustrated below is intended for heating second or third floor rooms.

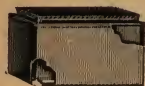
Note plaster clinch on long sections of Double Wall Pipe.



(2 in. long.)



(4 in. long.)



(6 in. long.)



(9 in. long.)



(12 in. long.)



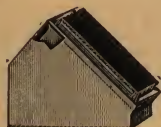
(2ft. long)



Adjustable Joint.  
Adjusts from 6½ to 13 in

## STACK ELBOWS AND ANGLES

These Fittings are for use with Double Pipe Illustrated above for heating second or third floor rooms.



Cut 4 Angle



Cut 8 Elbow  
(2 Cut 4 Angles)



Cut 8 Offset  
(2 Cut 4 Angles)



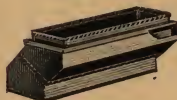
Cut 9 Elbow



Cut 1 Angle



Cut 2 Elbow  
(2 Cut 1 Angles)



Cut 2 Offset  
(2 Cut 1 Angles)



Cut 6 Elbow

## TEES AND REDUCERS

These Fittings are for use with Double Pipe illustrated above for heating second or third floor rooms.



Cut 17 Tee



Cut 18 Reducer



## List Prices of Double Wall Pipe and Fittings

For illustrations, see page 142.

Number of Pipe	Size of Pipe	Size of Regis- ter	Cut 18 Reducer	Elbow Cut 6	Tees Cut 17	Angle Cut 1	Cut 2 Offset or Elbow	Angle Cut 4	Cut 8 Offset or Elbow	Elbow Cut 9	Second Floor	
											Heads for Base Board	
											Cut 20	Cut 30
5	Inside 2 $\frac{3}{8}$ x10 Outside 3x10 $\frac{5}{8}$	8x10	\$2.90	\$2.25	\$3.50	\$1.45	\$2.90	\$2.25	\$4.50	\$3.70	\$4.00	\$4.00
7	Inside 3x10 Outside 3 $\frac{3}{8}$ x10 $\frac{5}{8}$	8x10	3.05	2.25	3.50	1.45	2.90	2.25	4.50	3.70	4.00	4.00
6	Inside 2 $\frac{3}{8}$ x12 Outside 3x12 $\frac{5}{8}$	8x12 9x12	3.05	2.40	3.75	1.70	3.40	2.40	4.80	4.00	4.25	4.25
8	Inside 3x12 Outside 3 $\frac{3}{8}$ x12 $\frac{5}{8}$	8x12 9x12	3.70	2.40	3.75	1.70	3.40	2.40	4.80	4.00	4.25	4.25

## List Prices of Standard Lengths of Double Wall Pipe

	No. 5	No. 7	No. 6	No. 8
2 inch Length.....	\$ .85	\$ .85	\$1.00	\$1.00
4 inch Length.....	1.00	1.00	1.20	1.20
6 inch Length.....	1.20	1.20	1.35	1.35
9 inch Length.....	1.50	1.50	1.75	1.75
12 inch Length.....	1.75	1.75	1.95	1.95
24 inch Length.....	3.00	3.00	3.35	3.35
Adjustable Joint.....	2 60	2.60	2.80	2.80

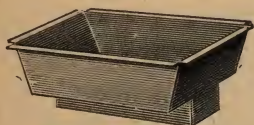
## Areas of Round Pipes

Size of Pipe	Area in Square Inches	No. of Cubic Feet of Air Discharged per Minute at a Velocity of 100 feet per Minute	No. of Cubic Feet of Air Discharged per Minute at a Velocity of 150 Feet per Minute
5 inch	19.6 square inches	14 cubic feet	21 cubic feet
7 "	38.4 " "	27 " "	40 $\frac{1}{2}$ " "
8 "	50.2 " "	35 " "	52 $\frac{1}{2}$ " "
9 "	63.6 " "	44 " "	65 " "
10 "	78.5 " "	55 " "	82 $\frac{1}{2}$ " "
12 "	113 " "	79 " "	118 $\frac{1}{2}$ " "
14 "	153.9 " "	107 " "	160 $\frac{1}{2}$ " "
16 "	201 " "	140 " "	210 " "
18 "	254.4 " "	177 " "	265 $\frac{1}{2}$ " "
20 "	314 " "	218 " "	327 " "
22 "	380 " "	264 " "	396 " "
24 "	452 " "	314 " "	471 " "
26 "	531 " "	369 " "	553 $\frac{1}{2}$ " "
28 "	616 " "	428 " "	642 " "
30 "	707 " "	491 " "	736 $\frac{1}{2}$ " "
36 "	1017 " "	707 " "	1060 $\frac{1}{2}$ " "
40 "	1256 " "	873 " "	1309 $\frac{1}{2}$ " "

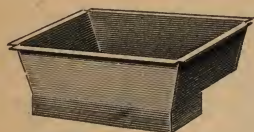




## Single Wall Pipe and Fittings



No. 21 Register Box  
For Floor Register



No. 22 Register Box.  
For Floor Register.



Cut 20 Head



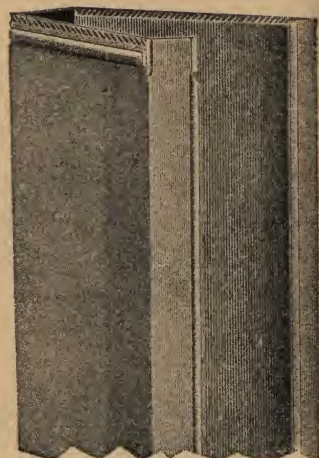
Cut 30 Head



No. 7 Boot



Sections of Nested Single Stack  
Single Wall Pipe furnished in 2 foot lengths, shipped nested 25 joints per bundle.



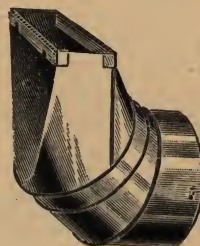
Section of Nested Single Stack



Cut 5 Boot



Cut 18 Boot



Cut 57 Boot



## List Prices of Single Wall Pipe and Fittings

Pipe Per Foot—Fittings Each

Size of Pipe	Nested in 2 ft. Lengths	Size of Register Heads	Cut 20 Heads	Tees 17	Angles Cut 1	Angles Cut 4	Elbow Cut 6	Elbow Cut 9	Heads Cut 30	Boots Cut 5 and 7	Boots Cut 18 and 57	Size of Boot Collars
3x10 and 3½x10	\$.72	8x10 Single 8x10 Double	\$1.60	\$1.55	\$ .90	\$1.15	\$1.35	\$1.60	\$1.80	\$1.70	\$1.85	8 in. or 9 in.
3x12 and 3½x12	.80	8x12 Single 9x12 Single 8x12 Double 9x12 Double	1.80	1.70	1.10	1.30	1.50	1.75	2.00	1.90	2.00	9 in. or 10 in.
3½x13	.97	10x12 Single 8x12 Double	2.00	1.90	1.30	1.55	1.75	2.00	2.20	2.15	2.25	10 in.
5½x12	1.12	11x13 Single 12x14 Single	2.25	2.10	1.55	1.85	1.90	2.25	2.45	2.80	3.15	12 in.
½x13	1.27	11x13 Double	2.50	2.25	1.85	2.15	2.10	2.40	2.70	3.10	3.40	12 in.

List Prices cover boots with standard collars. Extra charge of 20c each net for collars other than standard. Add 50c net for heads other than standard. Made up Pipe furnished to order at advance of 3 cents list per foot. For Galvanized Air Conditioning Trunk Line Ducts, see page 159.

For illustrations, see page 144.

## List Prices Each of Register Boxes — See page 144.

No. 21 and 22

Size of Pipe, inches.....	3 x 10	3½ x 10	3 x 12	3½ x 12	3½ x 13	5½ x 12	5½ x 13
Size of Register.....	8 x 10	8 x 10	8 x 12	8 x 12	10 x 12	10 x 14	12 x 14
No. 21.....	\$1.60	\$1.60	\$1.80	\$1.80	\$2.00	\$2.25	\$2.50
No. 22.....	1.60	1.60	1.80	1.80	2.00	2.25	2.50

## List Prices each of Register Boxes, 8x10 to 16x18 Sizes

No. 60, 50 and 40.

See illustrations page 148.

Size in Inches	8x10	8x12	9x12	10x12	10x14	12x14	12x15	14x16	14x18	14x20	16x18
Collar.....	8"	8"	9"	10"	10"	12"	12"	14"	14"	14"	16"
I. C. Tin.....	\$1.50	\$1.60	\$1.65	\$1.80	\$1.95	\$2.20	\$3.00	\$3.50	\$3.95	\$4.40	\$4.90
I. X. Tin.....	1.70	1.85	1.90	2.10	2.25	2.60	3.30	3.85	4.35	4.85	5.40
Galvanized Iron.....	2.00	2.15	2.20	2.40	2.55	2.90	3.30	3.85	4.35	4.85	5.40

## List Prices each of Register Boxes, 16x20 to 36x40 Sizes

No. 60, 50 and 40

See illustrations page 148.

Size in Inches	16x20	16x24	18x20	18x24	20x24	20x26	24x24	24x30	30x30	30x36	36x36	36x40
Collar.....	16"	16"	18"	18"	20"	20"	24"	24"	28"	30"	34"	36"
I. C. Tin.....	\$5.30											
I. X. Tin.....	5.85	\$6.35	\$6.75	\$7.00	\$7.70	\$8.60	\$10.70	\$11.20	\$12.00	\$12.80	\$16.00	\$19.00
Galvanized Iron.....												





## Badger Round Pipe and Elbows

Made from Tin, Galvanized and Black Steel, Galvannealed and Galvanized and Black Toncan Iron.



Section of Nested Pipe.



30 Degree Angle



60 Degree Angle



90 Degree Angle



Adjustable Elbow

Pipe shipped 25 lengths to a bundle. Locks formed but not seamed. Joints nested. Actual length of joint 24 inches.

Elbows shipped wired in bundles.

4-Piece 90° in multiples of four.

3-Piece 60° in multiples of six.

2-Piece 45° in multiples of eight.

2-Piece 30° in multiples of twelve.

For list prices on above see page 147.

For Galvanized Round Long Length Pipe for Forced Air Systems - see page 157

## Galvanized Ceiling Plates and Transition Heads

Galvanized Ceiling Plates with collar are made to fit All Standard Sizes of Cold Air Pipe 12 inches and Larger

Galvanized Cold Air Transition Heads Produce a Funnel Box Effect and are Fitted to all Standard Sizes of Cold Air Pipe 12 Inches and Larger



Listed sizes are made 32 inches long and 2 inches wider than the diameter of the round collar.

### LIST PRICES EACH

Diameter in Inches.....	7	8	9	10	12	14	16	18	20	22	24
Galv. Ceiling Plates with Collar.....					\$2.80	\$3.05	\$3.30	\$3.50	\$3.75	\$4.10	\$4.60
Transition Cold-Air Heads.....						5.30	5.75	6.25	7.20	8.15	9.15



## List Prices Round Pipe and Elbows

For Illustrations, See Page 146

### TIN PIPE—List Prices per Foot

Size, Inches.....	3	4	5	6	7	8	9	10	12	14
IC Tin Pipe KD.....	\$0.35	\$0.39	\$0.42	\$0.46	\$0.48	\$0.53	\$0.59	\$0.67		
IX Tin Pipe, KD.....	.40	.45	.48	.56	.58	.64	.72	.80	\$ .96	\$1.25

### TIN ANGLES AND ELBOWS—List Prices Each

Size, Inches.....	3	4	5	6	7	8	9	10	12	14
IC Tin, 4-Pc., 90° Elbows.....	\$0.50	\$0.60	\$0.65	\$0.75	\$0.80	\$0.88	\$0.96	\$1.12		
IX Tin, 4-Pc., 90° Elbows.....	.60	.75	.80	.90	.96	1.04	1.15	1.36	\$2.00	\$2.75
IC Tin, 3-Pc., 60° Angles.....					.64	.72	.80	.93		
IX Tin, 3-Pc., 60° Angles.....					.85	.90	1.00	1.18	1.60	2.25
IC Tin, 2-Pc., 45° Angles.....				.48	.52	.58	.65	.75		
IX Tin, 2-Pc., 45° Angles.....				.65	.70	.75	.85	.95	1.25	1.75
IC Tin, 2-Pc., 30° Angles.....					.43	.48	.56	.65		
IX Tin, 2-Pc., 30° Angles.....						.65	.75	.85	1.10	1.60

### GALVANIZED FURNACE PIPE—List Prices per Foot

Size, Inches....	3	4	5	6	7	8	9	10	12	14	16	18	20	22	24
28 Ga. KD.....	\$ .25	\$ .32	\$ .38	\$ .44	\$ .52	\$ .58	\$ .64	\$ .70	\$ .85	\$1.05	\$1.20	\$1.40	\$1.65	\$2.00	\$2.35
26 Ga. KD.....	.28	.34	.41	.47	.56	.62	.69	.79	.89	1.15	1.30	1.55	1.85	2.20	2.60
24 Ga. KD.....	.37	.44	.50	.59	.68	.76	.84	.95	1.10	1.35	1.55	1.85	2.25	2.55	3.00
22 Ga. KD.....					.73	.88	.98	1.10	1.25	1.60	1.80	2.05	2.70	3.75	4.30

### BLACK FURNACE PIPE—List Prices per Foot

Size, Inches....				6	7	8	9	10	12	14	16	18	20	22	24
24 Ga.....				.46	.53	.59	.65	.71	.83	.95	1.07	1.20	1.32	1.47	1.60
22 Ga.....						.76	.84	.92	1.30	1.46	1.63	1.87	2.28	2.60	3.10

### GALVANIZED ELBOWS AND ANGLES—List Prices Each

Size, Inches...	3	4	5	6	7	8	9	10	12	14	16	18	20	22	24
28 Ga. 4 pc. 90°	.66	.78	.90	.99	1.10	1.22	1.34	1.49	1.82	2.50	3.35	4.50	5.60	6.70	7.90
3 pc. 60°			.80	.90	1.00	1.07	1.14	1.24	1.48						
2 pc. 45°			.75	.81	.87	.93	.99	1.08	1.29	1.50	1.80	2.30	3.00	3.80	4.40
2 pc. 30°			.68	.73	.78	.84	.89	.97	1.16						
26 Ga. 4 pc. 90°	.68	.81	.95	1.01	1.15	1.26	1.40	1.56	1.95	3.33	4.17	5.33	6.33	7.08	8.33
3 pc. 60°			.85	.93	1.03	1.10	1.16	1.32	1.55	2.66	3.33	4.17	4.66	5.16	5.91
2 pc. 45°			.80	.82	.90	.96	1.02	1.15	1.35	1.91	2.42	3.00	3.75	4.17	4.83
2 pc. 30°			.73	.75	.80	.86	.91	1.03	1.21	1.75	2.17	2.67	3.00	3.25	3.67
24 Ga. 4 pc. 90°	.85	.95	1.02	1.13	1.29	1.41	1.57	1.75	2.21	4.00	5.25	6.41	7.58		
3 pc. 60°			.95	1.03	1.12	1.21	1.27	1.45	1.72	3.25	4.00	5.25	6.41		
2 pc. 45°			.85	.90	.97	1.05	1.10	1.26	1.50	2.33	2.92	3.50	4.50		
2 pc. 30°			.78	.80	.88	.95	1.00	1.14	1.35	2.15	2.53	3.25	4.00		
22 Ga. 4 pc. 90°					2.83	3.16	3.50	3.83	5.00	6.25	7.65	9.25	10.75	12.15	13.65
3 pc. 60°					2.25	2.50	2.75	3.16	3.75	4.65	5.85	7.05	8.30		
2 pc. 45°					1.79	1.95	2.08	2.35	3.00	3.50	4.30	5.20	6.00		
2 pc. 30°					1.58	1.75	1.91	2.16	2.66	3.20	3.90	4.70	5.45		

### BLACK ELBOWS—List Prices Each

Size, Inches...				6	7	8	9	10	12	14	16	18	20	22	24
24 Ga. 4 pc. 90°				.95	1.09	1.18	1.32	1.45	1.79	3.33	4.33	5.33	6.08	7.15	8.45
22 Ga. 4 pc. 90°						1.78	2.11	2.44	3.10	4.05	5.30	6.50	7.70	8.75	10.00

### BLACK ANGLES—List Prices Each

Size, Inches...				6	7	8	9	10	12	14	16	18	20		
24 Ga. 2 pc. 45°				.80	.87	.91	.96	1.07	1.25	1.91	2.41	3.00	3.75		
22 Ga. 2 pc. 45°				1.15	1.25	1.55	1.75	2.00	2.60	3.50	4.75	5.95	7.20		

Made up Pipe to order at 3 cents per foot list additional.  
 Pipe 24 inch joints—12 inch long joints 10% advance.  
 Taper Joints, price of full joint (large end size) plus 20%.

For Round Long—Length Air Conditioning Pipe  
 see page 157.





## Furnace Pipe Accessories



Galvanized Joist  
Lining Collar



Casing Collar for  
Side of Bonnet



Casing Collar for  
Top of Bonnet



Galvanized Drawband

### LIST PRICES OF EACH

Diameter in Inches	5	6	7	8	9	10	12	14	16	18	20	22	24
Galvanized Y Joints						\$5.90	\$7.80	\$11.50	\$13.80	\$18.40	\$23.00		
Galvanized Top Casing Collars		.37	.37	.43	.50	.53	.63	.79	1.01	1.27	1.49	\$1.97	\$2.29
Galvanized Side Casing Collars		.64	.64	.64	.74	.80	.96	1.18	1.60	2.02	2.88	3.20	3.52
Galvanized Joist Lining Collars		.64	.64	.64	.74	.80	.96	1.18	1.60	2.02	2.88	3.20	3.52
T Joints No. 26 Gauge Galv. Iron	2.40	2.40	2.40	2.90	3.60	4.30	5.25						
T Joints No. 24 Gauge Galv. Iron	2.80	2.80	2.80	3.20	4.00	4.80	6.00						
Draw Bands, 6" Wide		.70	.84	.92	1.00	1.10	1.26	1.46	1.66	2.00	2.25	2.60	3.25
Galvanized, Cleanout Caps	1.58	1.62	1.76	1.85	1.94								

## Chimney Thimbles

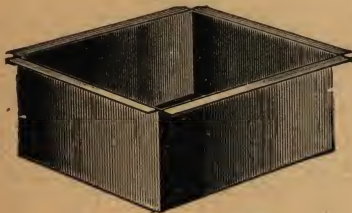


Made of Heavy Weight Galvanized Sheet Steel.

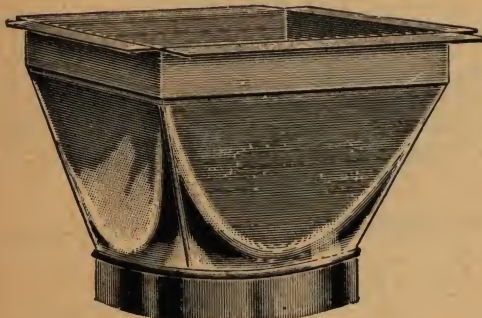
### List Prices Each

6" Diameter — 4 inch long	\$.37
7" Diameter — 4 inch long	.37
8" Diameter — 4 inch long	.43
9" Diameter — 4 inch long	.50
10" Diameter — 4 inch long	.53
12" Diameter — 4 inch long	.63

Can also be furnished in 6 inch and 8 inch lengths at extra cost.

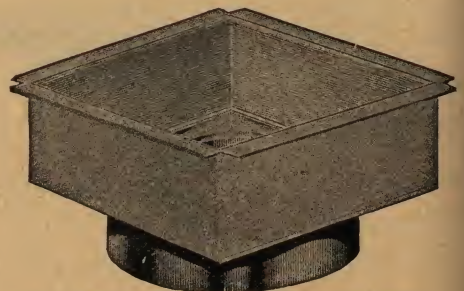


Cut 60 Register Box



Cut 50 Register Box

For List Prices on Floor Boxes, see page 145



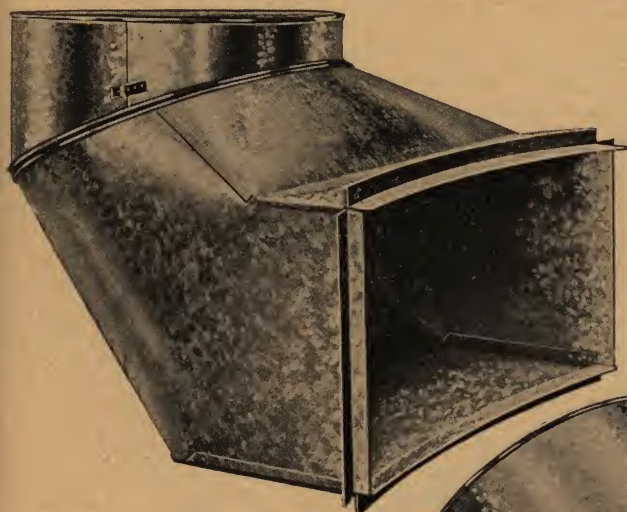
Cut 40 Register Box, 4 inches Deep with Collar  
3 Inches Long





## Galvanized Cold-Air Shoes

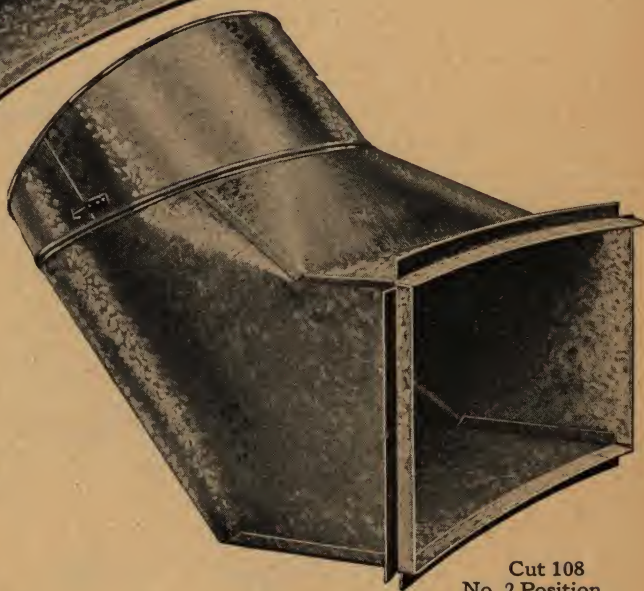
MADE OF HEAVY GAUGE



Cut 108  
No. 1 Position

Cut 108 in No. 2 position saves a 2-piece angle. The collar is adjustable. See lugs, which, when tightened, hold collar rigidly in place.

CUT 108 COLD-AIR SHOE answers every purpose and makes other styles unnecessary.



Cut 108  
No. 2 Position

### LIST PRICES OF GALVANIZED COLD-AIR SHOES

Size of Square End	Size of Collar in inches	Round Pipe Area Sq. Ins.	Shoe Cut 108
10 x 16	14	154	\$7.75
12 x 18	16	201	8.50
12 x 24	18	254	9.85
12 x 28	20	314	11.20
12 x 32	22	380	12.80
12 x 38	24	452	14.40
13½ x 40	26	531	16.00
13½ x 46	28	616	17.60
13½ x 53	30	707	20.80

Cold-air shoes are fitted to any size furnace if the diameter of casing is given.

WHEN ORDERING BE SURE TO GIVE CUT NUMBER, DIAMETER OF CASING AND SIZE OF COLLAR WANTED

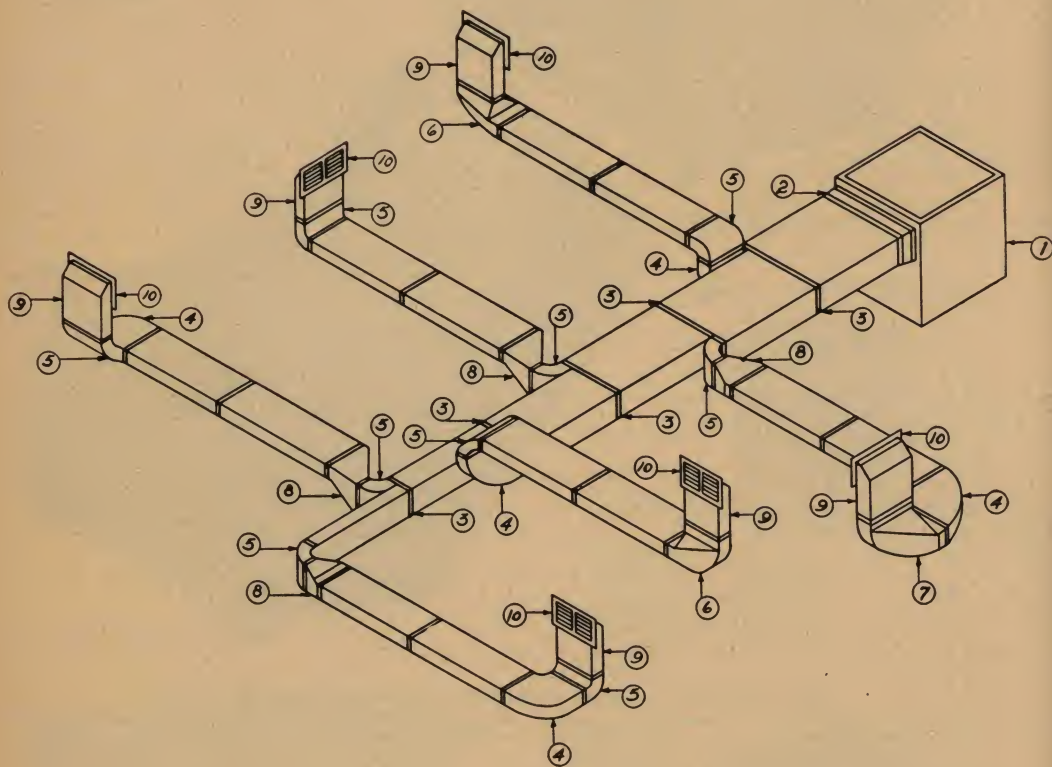




TO ILLUSTRATE A STANDARD BASEMENT TRUNK LINE ASSEMBLY—  
SHOWING SQUARE TRUNK AND SQUARE BRANCH  
LINES AND FITTINGS.

This Basement Air-Conditioning System permits reasonable Low Cost, Accurate Air Distribution and Neatness in Appearance. Branch Lines may be set below or between the Joists and still approach the Register Connection from a desired direction.

Trunk Line Reducers may be used instead of Duct Splitter Joints.



- |                           |                                      |
|---------------------------|--------------------------------------|
| 1. Plenum Chamber         | 6. Cut 68 Reverse Elbow              |
| 2. Plenum Take-Off Collar | 7. Cut 67 Reverse Elbow              |
| 3. Splitter Duct Collar   | 8. Cut 41 Center Transition          |
| 4. Cut 9 Elbow 90°        | 9. Cut 20 Stackhead                  |
| 5. Cut 6 Elbow 90°        | 10. U. S. Air-Conditioning Registers |

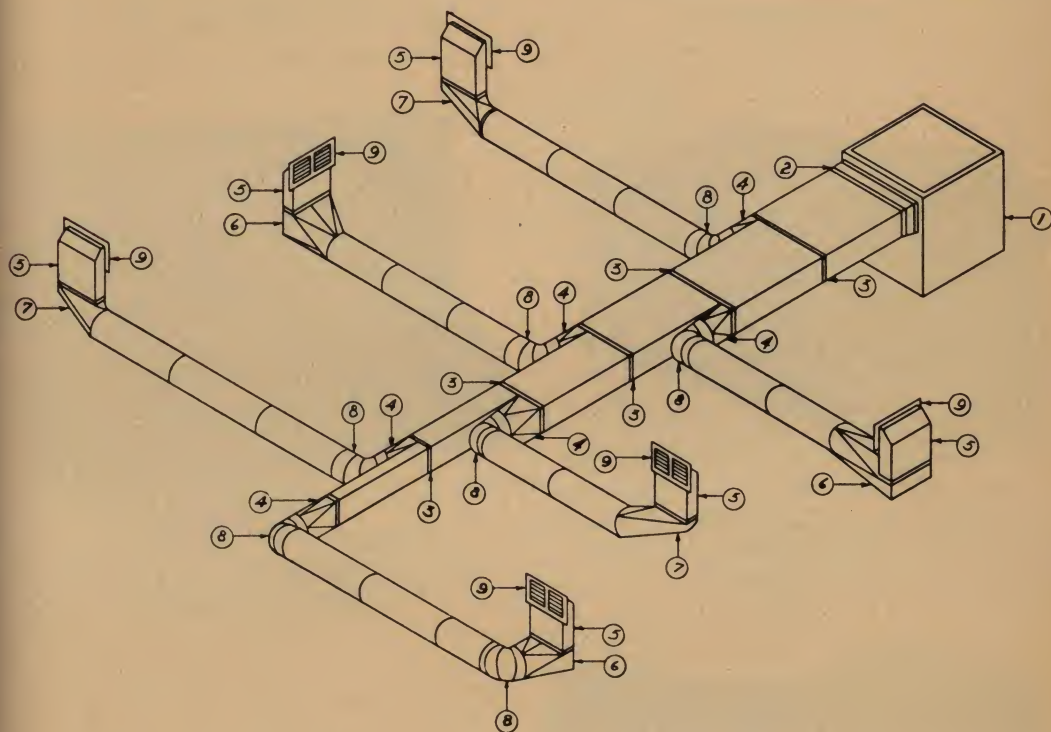


**TO ILLUSTRATE A STANDARD BASEMENT TRUNK LINE ASSEMBLY—  
SHOWING SQUARE TRUNK LINE AND ROUND PIPE  
BRANCH LINES AND FITTINGS.**

This Basement Air-Conditioning type of installation creates a very Practical and Efficient arrangement with Round Pipe Branches, with Square to Round Transformer Take-Offs and Duct-Splitter Collars.

This Installation can also be advisably made with Trunk Line Reducers instead of Duct Splitter Collars and Transformer Take-Offs.

THIS INSTALLATION PRODUCES A VERY LOW FRICTION LOSS and PERMITS of MAXIMUM SPEED in INSTALLATION and GREAT LABOR SAVING EXPENSE and MATERIAL ECONOMY.



1. Plenum Chamber
2. Plenum Take-Off Collar
3. Splitter Duct Collar
4. Cut 117 Transformer
5. Cut 20 Stackhead

6. Cut 11 Stack Boot
7. Cut 18 Stack Boot
8. Round Pipe Elbow
9. U. S. Air-Conditioning Registers





**BADGER PRE-FABRICATED BASEMENT TRUNK LINE AND FITTINGS**

Made of Galvanized Sheets — Standard Equipment — 26 Gauge



Rectangular Galvanized Plenum Chamber

List Prices Page 163

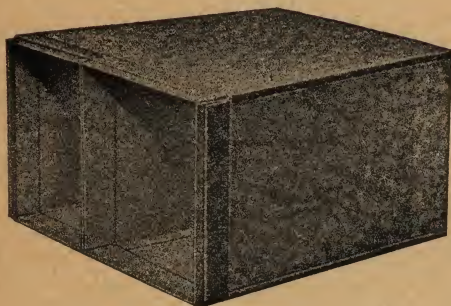


Cut No. 82

Plenum or Trunk Line Take-Off Collar

4 inches from  $\frac{1}{2}$ " Flange

List Prices Page 162



Cut No. 71

Vertical 2-Way Splitter Duct Collar—12" Long.

Division Can be Made Any Place in Collar  
that is Specified

List Prices Page 161

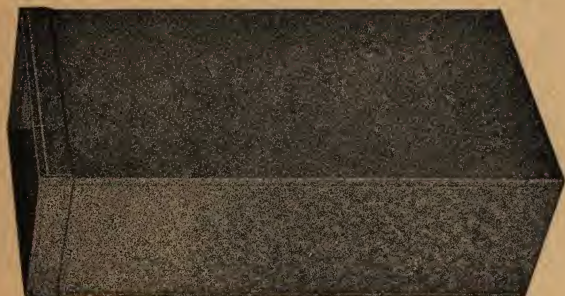


Cut No. 91

Rectangular Trunk Line Reducer

Consumes One Foot Pipe Length Installed

List Prices Page 162



Section of Trunkline Duct

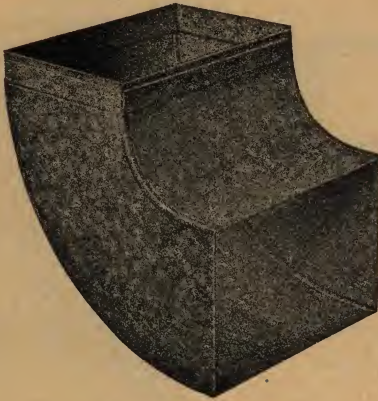
List Prices Page 159





**BADGER PRE-FABRICATED BASEMENT TRUNK LINE FITTINGS (Cont.)**

**Made of Galvanized Sheets — Standard Equipment — 26 Gauge**



Cut 6 Elbow (Short Way)

List Prices Page 159



Cut 1 Angle (Short Way)

List Prices Page 159



Cut 9 Elbow (Broad Way)

List Prices Page 160



Cut 4 Angle (Broad Way)

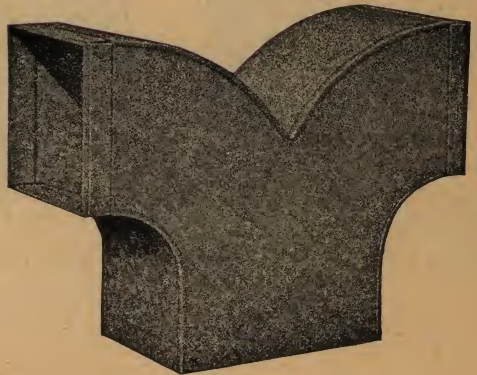
List Prices Page 160

**Y-Joint**

Also Furnished as a Side Y  
Specify Style Desired by Large End  
and Branch End Sizes

Also Furnished as 3-Way Y

List Prices Page 163





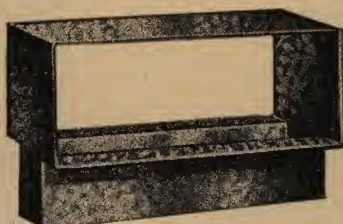


**BADGER PRE-FABRICATED AIR-CONDITIONING WALL STACK FITTINGS**

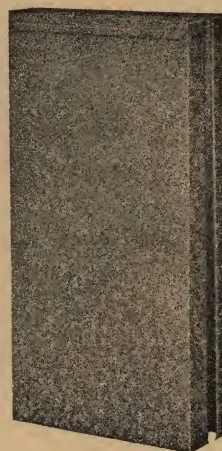
Made of 28 Gauge Galvanized Sheets



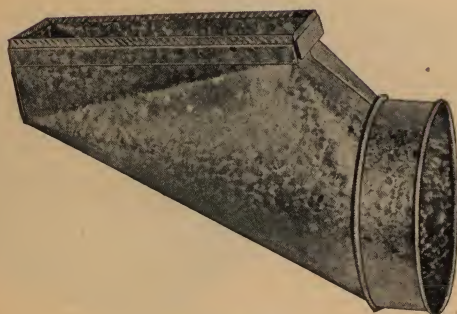
Cut 20 Galvanized Head  
For 1 Base or Sidewall  
A-C Register  
List Prices Page 164



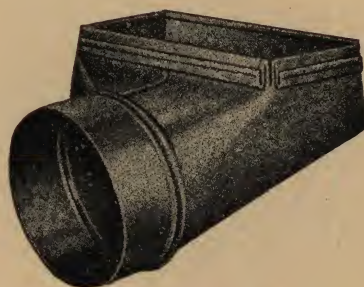
Cut 30 Galvanized Head  
For Two Air-Conditioning Registers  
List Prices Page 164



Nested Wall Stack — 2 Ft. Joints  
List Prices Page 164



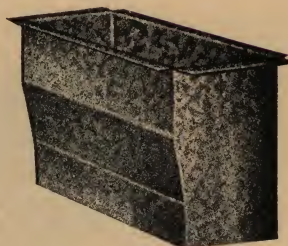
Cut 18 Boot  
List Prices Page 164



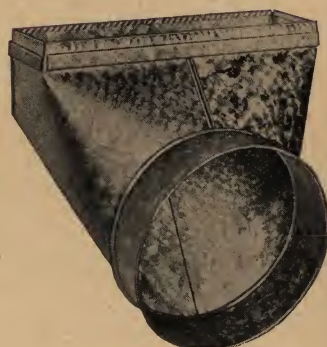
Cut 11 90° Angle Boot  
List Prices Page 164



Cut 5 Boot  
List Prices Page 164



Cut 12 Stackhead  
For Floor Register  
List Prices Page 164

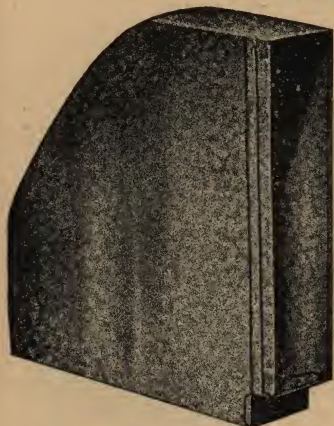


Cut 13 Boot  
List Prices Page 164



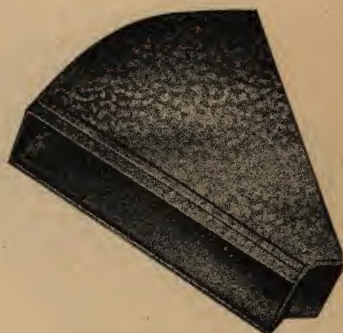


**BADGER PRE-FABRICATED AIR-CONDITIONING WALL STACK FITTINGS**  
 Made of 28 Gauge Galvanized Sheets

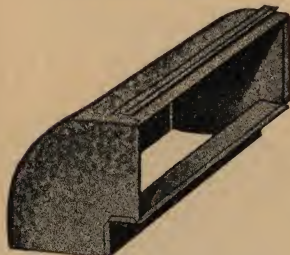


Cut 9 Broad Way Elbow  
 List Prices Page 160

Order by  
 Wall Stack size and  
 style number.



Cut 4 Broad Way Angle  
 List Prices Page 160



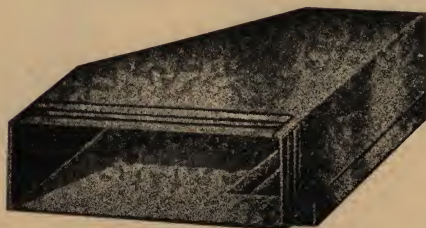
Cut 6 Short Way Elbow  
 List Prices Page 159



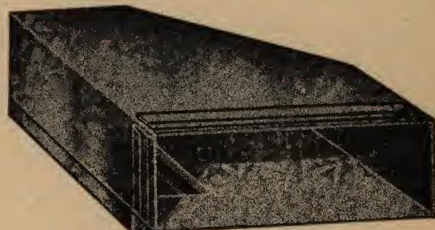
Wall Stack Reducer  
 List Prices Page 164



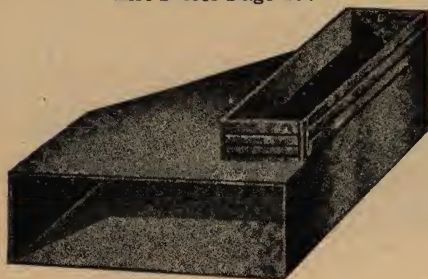
Cut 1 Short Way Angle  
 List Prices Page 159



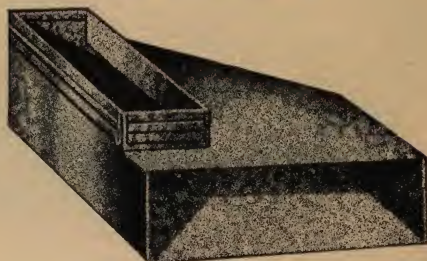
Cut 65 Reverse Elbow  
 List Prices Page 164



Cut 66 Reverse Elbow  
 List Prices Page 164



Cut 67 Reverse Elbow  
 List Prices Page 164



Cut 68 Reverse Elbow  
 List Prices Page 164





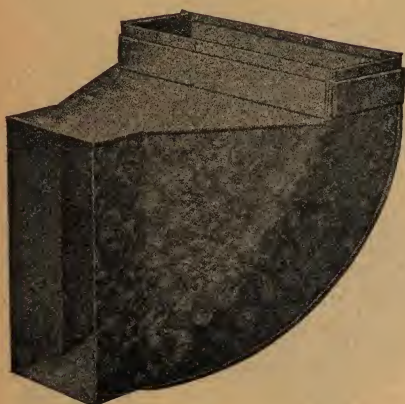
**BADGER PRE-FABRICATED AIR-CONDITIONING BASEMENT FITTINGS**  
**Made of Galvanized Sheets**



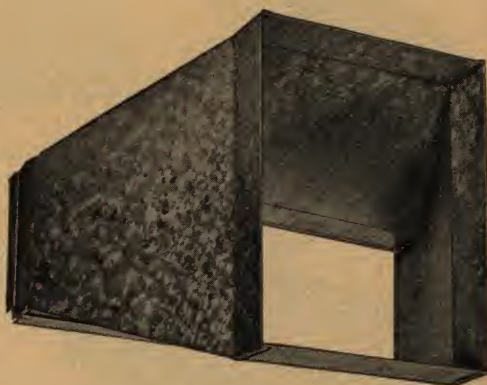
Cut 35-L Left Reverse Elbow



Cut 34-R Right Reverse Elbow



Cut 33 Center Reverse Elbow



40-L Left-hand Transition Section

41 Center Transition Section

40-R Right-hand Transition Section

List Prices of Above Fittings Page 161



S-Hooks. List per Lineal Foot 11c

Not Included with List of Square Pipe as Standard Equipment



**BADGER PRE-FABRICATED  
GALVANIZED ROUND LONG-LENGTH  
AIR-CONDITIONING BRANCH LINE PIPE**



Made in 6, 8 and 10 foot lengths

List Prices per Foot

Size	5 Inch	6 Inch	7 Inch	8 Inch	9 Inch	10 Inch
No. 28 Gauge	\$ .39	\$ .50	\$ .70	\$ .80	\$ .90	\$1.00
No. 26 Gauge	.46	.58	.82	.92	1.02	1.12

For Galvanized Round Air Conditioning Branch Line Pipe in 24" joints, Elbows and Angles, see page 146. Galvanized Casing Collars and Drawbands see page 148.

**PRE-FABRICATED ROUND AIR CONDITIONING BRANCH LINE FITTINGS**

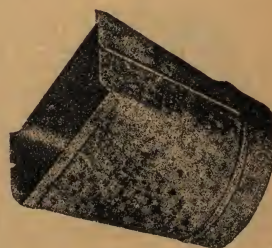
Made of 28 Gauge Galvanized Steel



Cut 16 Top Take-Off Boot  
List Prices Page 164



Cut 116 Take-Off Boot  
List Prices Page 164



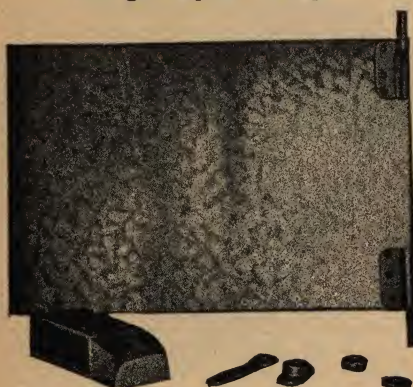
Cut 117 Transformer  
Trunk Line Square to  
Round Side  
Take-Off Fitting  
List Prices Page 164





**BADGER RECTANGULAR VOLUME AND SPLITTER DAMPERS ARE FURNISHED COMPLETE WITH THE MOST EFFICIENT TYPE OF DIAL REGULATOR AND SNAP-SPRING BEARINGS.**

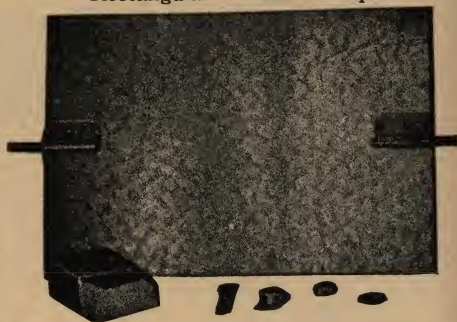
Rectangular Splitter Damper



When ordering Rectangular Splitter Damper state if bearing should be attached on Long or Short Side.

When ordering Rectangular Volume Damper state if bearings should be in center of Long or Short Dimension.

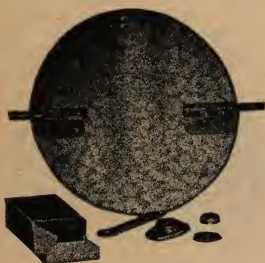
Rectangular Volume Damper



**LIST PRICES—DIMENSIONS VOLUME AND SPLITTER DAMPERS**

Size in Inches	6"	7"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	36"
3 x	\$1.83	\$1.92	\$1.96	\$2.04	\$2.08	\$2.17	\$2.25	\$2.29	\$2.37	\$2.46	\$2.50	\$2.58	\$2.62	\$2.71	\$2.79
3½ x	1.92	1.96	2.04	2.08	2.17	2.25	2.29	2.37	2.46	2.50	2.58	2.62	2.71	2.79	2.83
4 x	1.96	2.04	2.08	2.17	2.25	2.29	2.37	2.46	2.50	2.58	2.62	2.71	2.79	2.83	2.92
5 x	2.04	2.08	2.17	2.25	2.29	2.37	2.46	2.50	2.58	2.62	2.71	2.79	2.83	2.92	3.00
6 x	2.08	2.17	2.25	2.29	2.37	2.46	2.50	2.58	2.62	2.71	2.79	2.83	2.92	3.00	3.04
7 x	.....	2.25	2.29	2.37	2.46	2.50	2.58	2.62	2.71	2.79	2.83	2.92	3.00	3.04	3.12
8 x	.....	.....	2.37	2.46	2.50	2.58	2.62	2.71	2.79	2.83	2.92	3.00	3.04	3.12	3.17
10 x	.....	.....	.....	2.50	2.58	2.62	2.71	2.79	2.83	2.92	3.00	3.04	3.12	3.17	3.25
12 x	.....	.....	.....	.....	2.62	2.71	2.79	2.83	2.92	3.00	3.04	3.12	3.17	3.25	3.33
14 x	.....	.....	.....	.....	.....	2.79	2.83	2.92	3.00	3.04	3.12	3.17	3.25	3.33	3.37
16 x	.....	.....	.....	.....	.....	.....	2.92	3.00	3.04	3.12	3.17	3.25	3.33	3.37	3.46

**BADGER ROUND VOLUME DAMPER COMPLETE WITH THE MOST EFFICIENT TYPE OF DIAL REGULATOR AND SNAP-SPRING BEARINGS**



Complete and Ready for Installation When Shipped

	3"	4"	5"	6"	7"	8"	9"	10"	12"
Round Quadrant Damper with Regulator and Bearings.....	\$1.00	\$1.00	\$1.12	\$1.12	\$1.17	\$1.23	\$1.28	\$1.34	\$1.60

Can be shipped installed in Pipe at above List plus List Price of piece of pipe in which the complete Round Damper is installed.





## LIST PRICES OF GALVANIZED AIR-CONDITIONING TRUNK LINE DUCT AND RECTANGULAR DUCTS

Shipped in Knocked-Down Nested Form. Wall Stack sizes 4 inch depth up to 14 inch wide made of No. 28 Ga. Iron. Larger sizes are made of No. 26 Ga. Iron. No. 24 Ga. furnished at an advance of 20%.

Pipe Size in Inches	6"	7"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	36"
3 x	\$0.70	\$0.73	\$0.76	\$0.79	\$0.87	\$0.95	\$1.29	\$1.41	\$1.54	\$1.62	\$1.70	.....	.....	.....	.....
3 1/4 x	.71	.74	.78	.82	.90	.98	1.31	1.43	1.56	1.66	1.76	.....	.....	.....	.....
3 1/2 x	.73	.76	.80	.83	.91	1.00	1.33	1.46	1.58	1.71	1.83	\$1.92	.....	.....	.....
4 x	.79	.83	.87	1.04	1.17	1.29	1.37	1.50	1.62	1.75	1.87	1.96	\$2.08	.....	.....
5 x	.83	.87	.96	1.08	1.21	1.33	1.42	1.54	1.67	1.79	1.92	2.00	2.12	\$2.25	.....
6 x	.87	.96	1.04	1.17	1.25	1.37	1.46	1.58	1.71	1.83	1.96	2.04	2.17	2.29	\$2.67
7 x	.....	1.04	1.08	1.21	1.29	1.42	1.54	1.67	1.75	1.87	2.00	2.08	2.21	2.33	2.71
8 x	.....	.....	1.04	1.12	1.21	1.29	1.42	1.54	1.67	1.75	1.83	1.92	2.00	2.12	2.46
10 x	.....	.....	.....	1.25	1.33	1.42	1.54	1.67	1.75	1.87	1.96	2.04	2.12	2.25	2.58
12 x	.....	.....	.....	.....	1.58	1.71	1.83	1.96	2.04	2.21	2.29	2.37	2.46	2.58	2.96
14 x	.....	.....	.....	.....	.....	1.83	1.96	2.04	2.17	2.29	2.37	2.46	2.58	2.71	3.08
16 x	.....	.....	.....	.....	.....	.....	2.04	2.17	2.29	2.37	2.50	2.62	2.75	2.87	3.25

Drive Straps and "S" Hook Dividing Strips List 11c per lineal foot.

## LIST PRICES OF GALVANIZED AIR-CONDITIONING ELBOWS CUT 6 (SHORT WAY) — 90°

Size in Inches	6"	7"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	36"
3 x	\$1.58	\$1.67	\$1.75	\$1.83	\$2.00	\$2.33	\$2.67	\$3.00	\$3.37	\$3.75	\$4.17	.....	.....	.....	.....
3 1/4 x	1.66	1.75	1.85	1.90	2.10	2.40	2.75	3.08	3.43	3.83	4.23	.....	.....	.....	.....
3 1/2 x	1.75	1.83	1.92	2.00	2.17	2.50	2.83	3.17	3.50	3.92	4.29	\$4.58	.....	.....	.....
4 x	1.96	2.04	2.08	2.42	2.58	2.75	3.04	3.33	3.67	4.08	4.41	4.79	\$5.00	.....	.....
5 x	2.04	2.08	2.17	2.50	2.67	3.00	3.25	3.54	3.87	4.25	4.54	4.91	5.33	\$5.83	.....
6 x	2.46	2.50	2.67	2.83	3.00	3.25	3.50	3.75	4.04	4.33	4.66	5.16	5.66	6.16	\$7.66
7 x	.....	2.58	2.79	2.96	3.12	3.37	3.62	3.87	4.17	4.46	4.79	5.50	6.12	6.75	8.33
8 x	.....	.....	2.92	3.12	3.33	3.58	3.83	4.17	4.50	4.83	5.16	5.83	6.58	7.33	9.00
10 x	.....	.....	.....	3.58	3.67	3.75	4.04	4.41	4.83	5.16	5.54	6.16	7.04	7.91	9.66
12 x	.....	.....	.....	.....	3.87	4.00	4.25	4.71	5.16	5.54	5.91	6.54	7.50	8.50	10.33
14 x	.....	.....	.....	.....	.....	4.21	4.46	4.96	5.50	5.83	6.29	6.91	7.96	9.08	11.00
16 x	.....	.....	.....	.....	.....	.....	4.66	5.33	5.83	6.25	6.66	7.29	8.45	9.66	11.66

SQUARE DUCT TAKE-OFF COLLARS TAKE SAME LIST AS ONE FOOT OF PIPE OF SAME SIZE.

## LIST PRICES OF GALVANIZED AIR-CONDITIONING ANGLES CUT 1 (SHORT WAY) — 45°

Size in Inches	6"	7"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	36"
3 x	\$1.21	\$1.25	\$1.33	\$1.42	\$1.50	\$1.75	\$2.00	\$2.25	\$2.54	\$2.83	\$3.12	.....	.....	.....	.....
3 1/4 x	1.27	1.31	1.40	1.50	1.55	1.80	2.06	2.31	2.58	2.89	3.16	.....	.....	.....	.....
3 1/2 x	1.33	1.37	1.46	1.54	1.62	1.87	2.12	2.37	2.62	2.96	3.21	\$3.46	.....	.....	.....
4 x	1.46	1.54	1.62	1.83	1.96	2.08	2.29	2.50	2.75	3.08	3.33	3.58	\$3.75	.....	.....
5 x	1.54	1.62	1.75	1.87	2.00	2.25	2.46	2.67	2.92	3.21	3.42	3.71	4.00	\$4.37	.....
6 x	1.83	1.87	2.00	2.12	2.25	2.46	2.62	2.83	3.04	3.25	3.50	3.87	4.25	4.62	\$5.75
7 x	.....	1.96	2.08	2.21	2.33	2.54	2.71	2.92	3.12	3.33	3.58	4.12	4.58	5.08	6.25
8 x	.....	.....	2.21	2.33	2.50	2.71	2.87	3.12	3.37	3.62	3.87	4.37	4.96	5.50	6.75
10 x	.....	.....	.....	2.71	2.75	2.83	3.04	3.33	3.62	3.87	4.17	4.62	5.29	5.96	7.25
12 x	.....	.....	.....	.....	2.92	3.00	3.21	3.54	3.87	4.17	4.46	4.91	5.62	6.37	7.75
14 x	.....	.....	.....	.....	.....	3.17	3.33	3.71	4.12	4.37	4.71	5.21	5.96	6.79	8.25
16 x	.....	.....	.....	.....	.....	.....	3.50	4.00	4.37	4.71	5.00	5.46	6.33	7.25	8.75





### LIST PRICES OF GALVANIZED AIR-CONDITIONING ELBOWS CUT 9 (BROAD WAY) — 90°

Size in Inches	6"	7"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	36"
3 x	\$2.04	\$2.08	\$2.17	\$2.29	\$2.50	\$2.75	\$3.08	\$3.50	\$4.04	\$4.71	\$5.54	.....	.....	.....	.....
3 1/4 x	2.06	2.10	2.20	2.35	2.55	2.80	3.12	3.54	4.08	4.77	5.60	.....	.....	.....	.....
3 1/2 x	2.08	2.12	2.21	2.37	2.58	2.83	3.17	3.58	4.12	4.83	5.66	\$6.54	.....	.....	.....
4 x	2.17	2.21	2.29	2.50	2.71	2.96	3.29	3.71	4.25	5.00	5.83	6.71	\$7.96	.....	.....
5 x	2.25	2.29	2.37	2.62	2.83	3.08	3.42	3.83	4.37	5.16	6.00	6.87	8.12	\$9.58	\$.....
6 x	2.37	2.42	2.50	2.79	3.00	3.25	3.58	4.00	4.54	5.37	6.21	7.08	8.33	9.79	11.87
7 x	.....	2.54	2.62	2.96	3.21	3.42	3.75	4.17	4.71	5.58	6.41	7.29	8.54	10.00	12.08
8 x	.....	.....	2.75	3.12	3.37	3.58	3.92	4.33	4.87	5.79	6.62	7.50	8.75	10.20	12.29
10 x	.....	.....	.....	3.33	3.58	3.83	4.17	4.58	5.12	6.12	6.96	7.83	9.08	10.62	12.70
12 x	.....	.....	.....	.....	3.79	4.08	4.41	4.83	5.37	6.46	7.29	8.16	9.41	11.04	13.12
14 x	.....	.....	.....	.....	.....	4.33	4.66	5.08	5.62	6.79	7.62	8.50	9.75	11.45	13.45
16 x	.....	.....	.....	.....	.....	.....	4.91	5.33	5.87	7.12	7.96	8.83	10.08	11.87	13.95

### LIST PRICES OF GALVANIZED AIR-CONDITIONING ANGLES CUT 4 (BROADWAY) — 45°

Size in Inches	6"	7"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	36"
3 x	\$1.54	\$1.58	\$1.62	\$1.71	\$1.87	\$2.08	\$2.29	\$2.62	\$3.04	\$3.54	\$4.17	.....	.....	.....	.....
3 1/4 x	1.56	1.60	1.65	1.75	1.90	2.10	2.33	2.66	3.06	3.58	4.21	.....	.....	.....	.....
3 1/2 x	1.58	1.62	1.67	1.79	1.96	2.12	2.37	2.71	3.08	3.62	4.25	\$4.91	.....	.....	.....
4 x	1.62	1.67	1.71	1.87	2.04	2.27	2.46	2.79	3.21	3.75	4.37	5.04	\$5.96	.....	.....
5 x	1.71	1.75	1.79	1.96	2.12	2.33	2.58	2.87	3.29	3.87	4.50	5.16	6.08	\$7.21	.....
6 x	1.79	1.83	1.87	2.08	2.25	2.46	2.71	3.00	3.42	4.04	4.66	5.33	6.25	7.33	\$8.91
7 x	.....	1.92	1.96	2.21	2.42	2.58	2.83	3.12	3.54	4.21	4.83	5.46	6.41	7.50	9.08
8 x	.....	.....	2.08	2.33	2.54	2.71	2.96	3.25	3.67	4.33	4.96	5.62	6.58	7.66	9.20
10 x	.....	.....	.....	2.50	2.71	2.87	3.12	3.46	3.83	4.58	5.21	5.87	6.83	7.96	9.54
12 x	.....	.....	.....	.....	2.83	3.08	3.33	3.62	4.04	4.83	5.46	6.12	7.08	8.29	9.83
14 x	.....	.....	.....	.....	.....	3.25	3.50	3.83	4.21	5.08	5.71	6.37	7.33	8.58	10.16
16 x	.....	.....	.....	.....	.....	.....	3.71	4.00	4.41	5.33	5.96	6.62	7.58	8.91	10.45

### LIST PRICES OF GALVANIZED DUCT-END OR WALL-STACK CAPS

Size in Inches	6"	7"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	36"
3 x	\$0.71	\$0.72	\$0.73	\$0.74	\$0.76	\$0.77	\$0.78	\$0.80	\$0.82	\$0.83	\$0.87	\$0.88	\$0.92	\$0.96	\$1.08
3 1/4 x	.71	.72	.73	.75	.76	.77	.79	.81	.82	.85	.87	.90	.94	.98	1.10
3 1/2 x	.72	.73	.74	.76	.77	.78	.80	.82	.83	.87	.88	.92	.96	1.00	1.12
4 x	.73	.74	.76	.77	.78	.80	.82	.83	.87	.88	.92	.96	1.00	1.04	1.17
5 x	.74	.76	.77	.78	.80	.82	.83	.87	.88	.92	.96	1.00	1.04	1.08	1.21
6 x	.76	.77	.78	.80	.82	.83	.87	.88	.92	.96	1.00	1.04	1.08	1.12	1.25
7 x	.....	.78	.80	.82	.83	.87	.88	.92	.96	1.00	1.04	1.08	1.12	1.17	1.29
8 x	.....	.....	.82	.83	.85	.88	.92	.96	1.00	1.04	1.08	1.12	1.17	1.21	1.33
10 x	.....	.....	.....	.87	.89	.92	.96	1.00	1.04	1.08	1.12	1.17	1.21	1.25	1.42
12 x	.....	.....	.....	.....	.92	.96	1.00	1.04	1.08	1.12	1.17	1.21	1.25	1.33	1.46
14 x	.....	.....	.....	.....	.....	1.00	1.04	1.08	1.12	1.17	1.25	1.29	1.33	1.37	1.50
16 x	.....	.....	.....	.....	.....	.....	1.08	1.17	1.21	1.25	1.29	1.33	1.37	1.42	1.67





### LIST PRICES OF GALVANIZED CUT 40-L (LEFT) CUT 41 (CENTER and CUT 40R (RIGHT) TRANSITION SECTIONS

Size in Inches of Large End	6"	7"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	36"
3 x	\$1.67	\$1.75	\$1.83	\$2.12	\$2.37	\$2.67	\$2.83	\$3.12	\$3.37	\$3.58	\$3.75	.....	.....	.....	.....
3 1/4 x	1.69	1.79	1.85	2.16	2.41	2.71	2.87	3.16	3.43	3.66	4.89	.....	.....	.....	.....
3 1/2 x	1.71	1.79	1.87	2.21	2.46	2.75	2.92	3.21	3.50	3.75	4.04	\$4.21	.....	.....	.....
4 x	1.75	1.83	1.92	2.29	2.58	2.83	3.04	3.29	3.58	3.83	4.12	4.29	\$4.58	.....	.....
5 x	1.83	1.92	2.12	2.37	2.67	2.92	3.12	3.42	3.67	3.96	4.21	4.41	4.66	\$4.96	.....
6 x	1.92	2.12	2.29	2.58	2.75	3.04	3.21	3.50	3.75	4.04	4.29	4.50	4.75	5.04	\$5.87
7 x	.....	2.29	2.37	2.67	2.83	3.12	3.37	3.67	3.83	4.12	4.41	4.58	4.87	5.12	5.96
8 x	.....	.....	2.58	2.75	3.04	3.21	3.50	3.75	4.04	4.21	4.50	4.66	4.96	5.21	6.04
10 x	.....	.....	.....	3.04	3.21	3.50	3.75	4.04	4.29	4.58	4.75	4.96	5.21	5.50	6.33
12 x	.....	.....	.....	.....	3.50	3.75	4.04	4.29	4.50	4.87	5.04	5.21	5.41	5.66	6.50
14 x	.....	.....	.....	.....	.....	4.04	4.29	4.50	4.75	5.04	5.21	5.41	5.66	5.96	6.79
16 x	.....	.....	.....	.....	.....	.....	4.50	4.75	5.04	5.21	5.50	5.79	6.04	6.33	7.16

### LIST PRICES OF GALVANIZED CUT 35 LEFT, 33 CENTER AND 34 RIGHT REVERSE DUCT ELBOWS

Size in Inches of Large End	6"	7"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	36"
3 x	\$3.25	\$3.42	\$3.58	\$3.95	\$4.37	\$5.00	\$5.50	\$6.12	\$6.74	\$7.33	\$7.92	.....	.....	.....	.....
3 1/4 x	3.35	3.54	3.70	4.06	4.51	5.11	5.62	6.24	6.86	7.31	8.14	.....	.....	.....	.....
3 1/2 x	3.46	3.62	3.79	4.21	4.63	5.25	5.75	6.38	7.00	7.68	8.33	\$8.79	.....	.....	.....
4 x	3.71	3.87	4.00	4.71	5.16	5.58	6.08	6.62	7.25	7.91	8.53	9.08	\$9.58	\$.....	.....
5 x	3.87	4.00	4.29	4.87	5.34	5.92	6.37	6.96	7.54	8.21	8.75	9.32	9.99	10.80	\$.....
6 x	4.48	4.62	4.96	5.41	5.75	6.29	6.71	7.25	7.79	8.37	8.95	9.66	10.41	11.20	13.53
7 x	.....	4.87	5.16	5.63	5.95	6.49	7.00	7.54	8.00	8.59	9.20	10.08	10.99	11.87	14.29
8 x	.....	.....	5.50	5.87	6.37	6.79	7.33	7.92	8.54	9.04	9.66	10.49	11.34	12.54	15.04
10 x	.....	.....	.....	6.62	6.87	7.25	7.79	8.45	9.12	9.74	10.29	11.12	12.25	13.40	16.00
12 x	.....	.....	.....	.....	7.37	7.75	8.30	9.00	9.66	10.41	10.95	11.75	12.91	14.16	16.83
14 x	.....	.....	.....	.....	.....	8.25	8.75	9.45	10.25	10.87	11.50	12.30	13.60	15.04	17.80
16 x	.....	.....	.....	.....	.....	.....	9.16	10.08	10.87	11.46	12.15	13.10	14.50	16.00	18.80

### LIST PRICES OF GALVANIZED VERTICAL AND HORIZONTAL TRUNK SPLITTER COLLARS CUTS 71 AND 72

For connecting Trunk Line to Rectangular Branch Fittings. List Prices govern Large End dimensions. 1st dimension represents width, second dimension represents depth. Specify Large End dimension first and Split-End dimensions last.

Size in Inches of Large End	6"	7"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	36"
3 x	\$1.50	\$1.58	\$1.67	\$1.92	\$2.17	\$2.42	\$2.58	\$2.83	\$3.08	\$3.25	\$3.42	.....	.....	.....	.....
3 1/4 x	1.52	1.60	1.69	1.96	2.21	2.46	2.62	2.87	3.12	3.33	3.54	.....	.....	.....	.....
3 1/2 x	1.54	1.62	1.71	2.00	2.25	2.50	2.67	2.92	3.17	3.42	3.67	\$3.83	.....	.....	.....
4 x	1.58	1.67	1.75	2.08	2.33	2.58	2.75	3.00	3.25	3.50	3.75	3.92	\$4.17	.....	.....
5 x	1.67	1.75	1.92	2.17	2.42	2.67	2.83	3.08	3.33	3.58	3.83	4.00	4.25	\$4.50	.....
6 x	1.75	1.92	2.08	2.33	2.50	2.75	2.92	3.17	3.42	3.67	3.92	4.08	4.33	4.58	\$5.33
7 x	.....	2.08	2.17	2.42	2.58	2.83	3.08	3.33	3.50	3.75	4.00	4.17	4.41	4.66	5.41
8 x	.....	.....	2.33	2.50	2.75	2.92	3.17	3.42	3.67	3.83	4.08	4.25	4.50	4.75	5.50
10 x	.....	.....	.....	2.75	2.92	3.17	3.42	3.67	3.92	4.17	4.33	4.50	4.75	5.00	5.75
12 x	.....	.....	.....	.....	3.17	3.42	3.67	3.92	4.08	4.41	4.58	4.75	4.91	5.16	5.91
14 x	.....	.....	.....	.....	.....	3.67	3.92	4.08	4.33	4.58	4.75	4.91	5.16	5.41	6.16
16 x	.....	.....	.....	.....	.....	.....	4.08	4.33	4.58	4.75	5.00	5.25	5.50	5.75	6.50





### LIST PRICES GALVANIZED AIR-CONDITIONING TRUNK LINE REDUCERS, CUT 91 — 12" LONG

Large End Size Governs List Price, Inches	6"	7"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	36"
3 x	\$1.50	\$1.58	\$1.67	\$1.92	\$2.17	\$2.42	\$2.58	\$2.83	\$3.08	\$3.25	\$3.42				
3 1/4 x	1.52	1.60	1.69	1.96	2.21	2.46	2.62	2.87	3.12	3.33	3.54				
3 1/2 x	1.54	1.62	1.71	2.00	2.25	2.50	2.67	2.92	3.17	3.42	3.67	\$3.83			
4 x	1.58	1.67	1.75	2.08	2.33	2.58	2.75	3.00	3.25	3.50	3.75	3.92	\$4.17		
5 x	1.67	1.75	1.92	2.17	2.42	2.67	2.83	3.08	3.33	3.58	3.83	4.00	4.25	\$4.50	
6 x	1.75	1.92	2.08	2.33	2.50	2.75	2.92	3.17	3.42	3.67	3.92	4.08	4.33	4.58	\$5.33
7 x		2.08	2.17	2.42	2.58	2.83	3.08	3.33	3.50	3.75	4.00	4.17	4.41	4.66	5.41
8 x			2.33	2.50	2.75	2.92	3.17	3.42	3.67	3.83	4.08	4.25	4.50	4.75	5.50
10 x				2.75	2.92	3.17	3.42	3.67	3.92	4.17	4.33	4.50	4.75	5.00	5.75
12 x					3.17	3.42	3.67	3.92	4.08	4.41	4.58	4.75	4.91	5.16	5.91
14 x						3.67	3.92	4.08	4.33	4.58	4.75	4.91	5.16	5.41	6.16
16 x							4.08	4.33	4.58	4.75	5.00	5.25	5.50	5.75	6.50

First figure represents width, Second depth. First dimension represents Large End or Inlet. Give dimensions of both ends when ordering.

### LIST PRICES GALVANIZED TRUNK LINE TAKE-OFF COLLARS, CUT 81, FOR ROUND FURNACE CASINGS

Size in Inches	6"	7"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	36"
3 x	\$0.70	\$0.73	\$0.76	\$0.79	\$0.87	\$0.95	\$1.29	\$1.41	\$1.54	\$1.62	\$1.70				
3 1/2 x	.73	.76	.80	.83	.91	1.00	1.33	1.45	1.58	1.71	1.83	\$1.92			
4 x	.79	.83	.87	1.04	1.17	1.29	1.37	1.50	1.62	1.75	1.87	1.96	\$2.08		
5 x	.83	.87	.96	1.08	1.21	1.33	1.42	1.54	1.67	1.79	1.92	2.00	2.12	\$2.25	
6 x	.87	.96	1.04	1.17	1.25	1.37	1.46	1.58	1.71	1.83	1.96	2.04	2.17	2.29	\$2.67
7 x		1.04	1.08	1.21	1.29	1.42	1.54	1.67	1.75	1.87	2.00	2.08	2.21	2.33	2.71
8 x			1.04	1.12	1.21	1.29	1.42	1.54	1.67	1.75	1.83	1.92	2.00	2.12	2.46
10 x				1.25	1.33	1.42	1.54	1.67	1.75	1.87	1.96	2.04	2.12	2.25	2.58
12 x					1.58	1.71	1.83	1.96	2.04	2.21	2.29	2.37	2.46	2.58	2.96
14 x						1.83	1.96	2.04	2.17	2.29	2.37	2.46	2.58	2.71	3.08
16 x							2.04	2.17	2.29	2.37	2.50	2.62	2.75	2.87	3.25

### LIST PRICES GALVANIZED RECTANGULAR TRUNK LINE COLLARS, CUT 82

Size in Inches	6"	7"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	36"
3 x	\$0.70	\$0.73	\$0.76	\$0.79	\$0.87	\$0.95	\$1.29	\$1.41	\$1.54	\$1.62	\$1.70				
3 1/4 x	.71	.74	.78	.82	.90	.98	1.31	1.43	1.56	1.66	1.76				
3 1/2 x	.73	.76	.80	.83	.91	1.00	1.33	1.45	1.58	1.71	1.83	\$1.92			
4 x	.79	.83	.87	1.04	1.17	1.29	1.37	1.50	1.62	1.75	1.87	1.96	\$2.08		
5 x	.83	.87	.96	1.08	1.21	1.33	1.42	1.54	1.67	1.79	1.92	2.00	2.12	\$2.25	
6 x	.87	.96	1.04	1.17	1.25	1.37	1.46	1.58	1.71	1.83	1.96	2.04	2.17	2.29	\$2.67
7 x		1.04	1.08	1.21	1.29	1.42	1.54	1.67	1.75	1.87	2.00	2.08	2.21	2.33	2.71
8 x			1.04	1.12	1.21	1.29	1.42	1.54	1.67	1.75	1.83	1.92	2.00	2.12	2.46
10 x				1.25	1.33	1.42	1.54	1.67	1.75	1.87	1.96	2.04	2.12	2.25	2.58
12 x					1.58	1.71	1.83	1.96	2.04	2.21	2.29	2.37	2.46	2.58	2.96
14 x						1.83	1.96	2.04	2.17	2.29	2.37	2.46	2.58	2.71	3.08
16 x							2.04	2.17	2.29	2.37	2.50	2.62	2.75	2.87	3.25





### LIST PRICES OF GALVANIZED STRAIGHT AND SIDE TWO-WAY SQUARE WYE BRANCHES

Size of Large End in Inches	6"	7"	8"	10"	12"	14"	16"	18"	20"	22"	26"	28"	30"	36"
3 x	\$2.35	\$2.35	\$2.35	\$2.50	\$2.60	\$2.60	\$2.90	\$3.00	\$3.10	\$3.20	\$3.50	\$3.50	\$3.80	\$3.90
3½ x	2.35	2.50	2.50	2.60	2.60	2.90	2.90	3.20	3.20	3.50	3.60	3.60	3.90	4.00
4 x	2.35	2.50	2.50	2.60	2.65	2.95	2.95	3.25	3.25	3.55	3.65	3.65	3.95	4.05
5 x	2.45	2.60	2.60	2.70	2.75	3.05	3.05	3.35	3.35	3.65	3.75	3.75	4.05	4.15
6 x	2.60	2.70	2.90	2.90	2.95	3.25	3.25	3.60	3.65	3.95	4.05	4.05	4.50	4.65
7 x	2.70	2.90	3.00	3.00	3.05	3.35	3.50	3.70	3.80	4.15	4.30	4.50	4.70	5.00
8 x	2.90	3.10	3.20	3.20	3.25	3.55	3.70	3.90	4.00	4.35	4.50	4.70	4.90	5.25
10 x	3.10	3.40	3.50	3.55	3.60	3.85	4.00	4.20	4.50	4.85	5.10	5.30	5.50	5.85
12 x	3.30	3.60	3.70	3.75	3.90	4.05	4.20	4.40	4.70	5.05	5.50	5.80	6.00	6.45
14 x	3.50	3.80	4.00	4.20	4.35	4.55	4.70	4.90	5.20	5.65	6.50	6.80	7.00	7.45
16 x	3.75	4.00	4.30	4.70	4.95	5.05	5.20	5.40	5.90	6.25	7.50	7.80	8.80	9.45

### LIST PRICES OF GALVANIZED THREE-WAY SQUARE WYE BRANCHES

Size of Large End in Inches	6"	7"	8"	10"	12"	14"	16"	18"	20"	22"	26"	28"	30"	36"
3 x	\$2.75	\$2.75	\$2.75	\$2.85	\$2.90	\$2.90	\$3.10	\$3.30	\$3.50	\$3.55	\$3.85	\$3.85	\$4.20	\$4.30
3½ x	2.75	2.75	2.75	2.90	2.95	3.20	3.20	3.55	3.55	3.85	3.96	3.96	4.30	4.40
4 x	2.75	2.75	2.75	2.90	2.95	3.25	3.30	3.55	3.55	3.90	4.00	4.00	4.30	4.55
5 x	2.80	2.85	2.85	3.00	3.00	3.35	3.35	3.75	3.75	4.00	4.10	4.10	4.50	4.60
6 x	2.85	3.00	3.20	3.20	3.20	3.60	3.60	4.00	4.00	4.30	4.45	4.45	5.00	5.10
7 x	3.00	3.20	3.30	3.50	3.55	3.70	3.85	4.10	4.20	4.55	4.75	4.90	5.20	5.50
8 x	3.20	3.40	3.55	3.55	3.90	3.90	4.10	4.30	4.40	4.75	4.90	5.20	5.30	5.90
10 x	3.40	3.75	3.85	4.00	4.10	4.25	4.40	4.65	4.90	5.10	5.35	5.55	5.80	6.45
12 x	3.60	4.00	4.10	4.20	4.20	4.25	4.65	4.84	5.20	5.55	6.10	6.40	6.60	7.10
14 x	3.85	4.20	4.40	4.65	4.80	5.00	5.20	5.30	5.50	5.95	7.00	7.10	7.35	7.85
16 x	4.15	4.40	4.75	5.30	5.50	5.50	5.75	5.95	6.20	6.60	7.90	8.70	9.25	10.50

### LIST PRICES GALVANIZED PLENUM CHAMBERS

Shipped Knocked-Down similar to Trunk Line Duct. Bottom Edge Plain or Flanged.

Height	List Prices	Based on	Perimeter	Measurement
6" to 12"	" "	" "	.06 per inch	"
13" to 18"	" "	" "	.08 per inch	"
19" to 24"	" "	" "	.10 per inch	"
25" to 30"	" "	" "	.12 per inch	"
31" to 36"	" "	" "	.14 per inch	"
36" to 42"	" "	" "	.16 per inch	"
42" to 48"	" "	" "	.18 per inch	"

Any intermediate height takes list of next greater height.

Multiply above list prices per inch by Perimeter in inches.





### LIST PRICES OF GALVANIZED AIR-CONDITIONING WALLSTACK FITTINGS

Size of Stack (Any size of Register not wider than stack)	Stack per ft.	Cut 20 Stack Head and Cut 12 Register Box	Cut 30 Stack Head	Cuts 5, 7 Boots (Give Collar size)	Reducing Joints	Cuts 11, 13, 18 Boots (Give Collar size)	Reverse Elbows 65, 66, 67, 68
3 x 8	\$0.76	\$1.70	\$2.45	\$1.65	\$1.70	\$1.70	\$1.82
3 x 10	.79	1.70	2.45	1.71	1.75	1.83	2.07
3 1/4 x 10	.82	1.70	2.45	1.71	1.95	1.83	2.15
3 1/2 x 10	.83	1.70	2.45	1.71	2.00	1.83	2.15
3 x 12	.87	1.85	3.00	1.83	2.20	2.08	2.17
3 1/4 x 12	.90	1.85	3.00	1.83	2.20	2.08	2.25
3 1/2 x 12	.91	1.85	3.00	1.83	2.20	2.08	2.25
3 x 14	.95	2.20	3.50	1.96	2.40	2.37	2.42
3 1/4 x 14	.98	2.20	3.50	2.02	2.45	2.43	2.50
3 1/2 x 14	1.00	2.20	3.50	2.08	2.45	2.50	2.50
3 1/2 x 16	1.33	3.00	4.50	2.16	2.75	2.80	....
3 1/2 x 18	1.46	3.50	5.00	2.36	2.90	3.00	....
3 1/2 x 20	1.58	4.00	5.50	2.56	3.15	3.30	....
3 1/2 x 24	1.83	4.50	6.50	2.96	3.50	4.00	....
3 1/2 x 30	2.50	5.50	7.50	3.50	4.00	4.50	....

### LIST PRICES GALVANIZED AIR-CONDITIONING FLOOR REGISTER BOXES WITH ROUND COLLARS

Size	List	Size	List	Size	List
5 x 10	\$1.50	6 x 12	\$1.80	8 x 10	\$2.00
6 x 10	1.60	6 x 14	2.00	8 x 12	2.50

### LIST PRICES STYLE 116 GALVANIZED AIR- CONDITIONING TAKE-OFF BOOTS

Size in inches	List	Size in inches	List	Size in inches	List
5	\$1.35	7	\$1.65	9	\$1.95
6	1.50	8	1.80	10	2.25

### LIST PRICES STYLE 16 GALVANIZED AIR-CONDITIONING TAKE-OFF BOOTS

Size in Inches	List	Size in Inches	List	Size in Inches	List
5	\$1.50	7	\$1.80	9	\$2.10
6	1.65	8	1.95	10	2.50

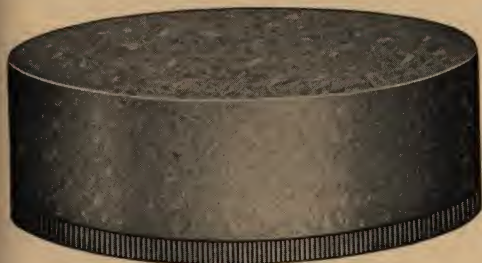
### LIST PRICES STYLE 117 GALVANIZED TRANSFORMERS

3 x 8 to 5" Round	\$1.45	4 x 8 to 7" Round	\$1.55
3 x 8 to 6" Round	1.50	5 x 8 to 8" Round	1.60

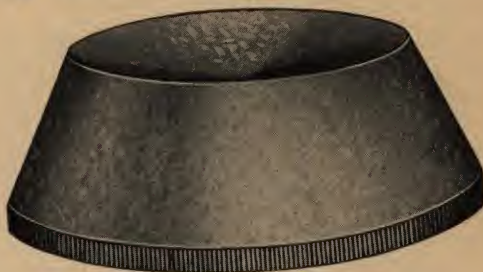
High Velocity Style 117 are 1 inch less in width and take same lists as above.



## Furnace Casing Bonnets

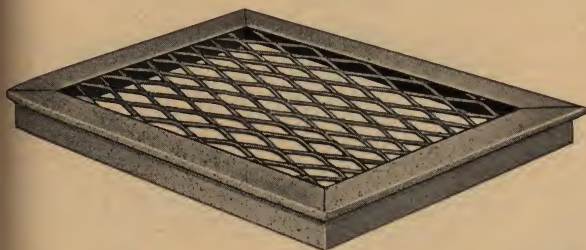


No. 110—Straight Bonnet with Flat Top  
Can also be made with concave top.



No. 116—Flaring Bonnet with Concave Top  
Can also be made with flat top.

Bonnets made of best grade Galvanized Steel Sheets—Prices quoted on receipt of specifications. When ordering give exact diameter or circumference of casing ring, also height required.



## Badger Wire Grilles

For Schools, Churches and Public Buildings

Made of 14 gauge Expanded Diamond Metal, with heavy Galvanized Frame—Aluminum Finish. When ordering specify dimensions of openings in which Grilles fit.

## No. 300 Furnace Regulator Set



Oxidized Copper Finish

No. 300 Set contains:

- 1 No. 3 Regulator with 30 ft. No. 91 Safety Chain, bright finish, attached.
- 4 No. 10 Plain Pulleys.
- 2 No. 15 and 2 No. 513 "S" Hooks.
- 2 Wood Screws.

## Furnace Accessories

Safety Regulator Chain



No. 91 (Actual size) Bright finish, packed 100 lin. ft. in a box.

## Steel Furnace Pulleys

Plain Steel Finish



No. 10—1¼" Wheel—Screw Eye.



No. 11—1¼" Wheel—Stationary Screw.





### Thermo-Drip Heat Controlled Humidifiers for Warm Air Heating Systems



Complete with Stainless Steel Pans

The Thermo-Drip Humidifier is available with a vapor pan of any size as listed. However, for the majority of installations, the following four humidifiers will prove most practical;

No. 21S, for blower-equipped furnaces in homes of 6 to 10 rooms: fits furnaces with 24", 27" or 30" firepots: pan has evaporating area of 272 sq. in.

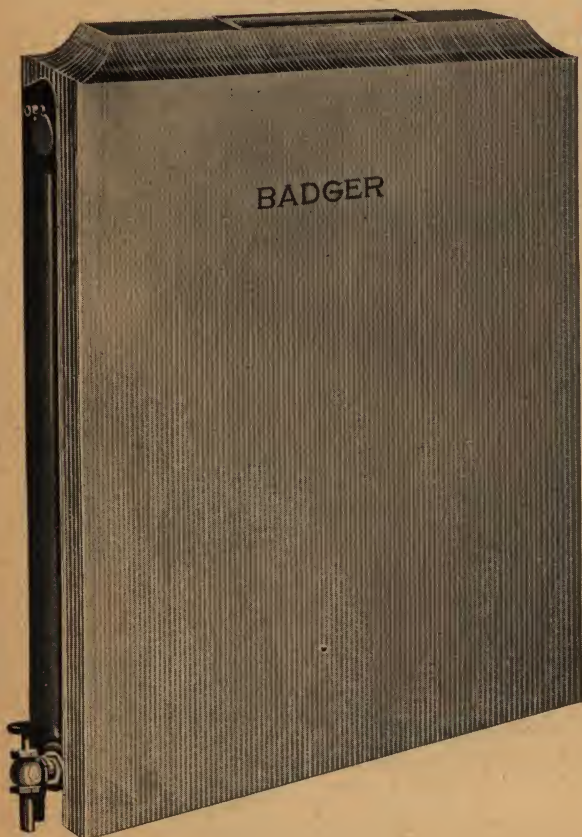
No. 16S, for same conditions as No. 21S but for gravity type furnaces. Pan has 204 sq. in. evaporating area.

No. 15S, for blower-equipped furnaces in homes of less than 6 rooms, and for many modern, compact, automatically-fired furnaces. Pan has 192 sq. in. evaporating area.

No. 14S, for gravity type furnaces in small homes. Pan has 144 sq. in. evaporating area.

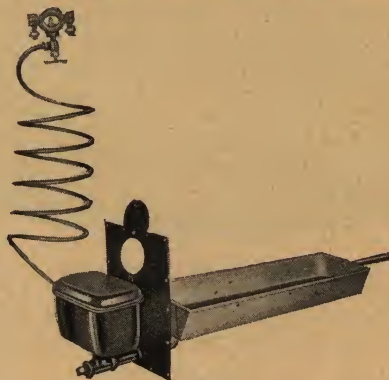
Nos. 15S and 16S are proved fast sellers, and dealers are urged to stock them.

Thermo-Drip No.	Pan size	Thermo-Drip No.	Pan Size
21S	34x8"	13S-C	18x4"
16S	34x6"	13S-B	15x4"
15S	24x8"	13S-A	13x4"
14S	24x6"	12S	18x6"
13S-E	30x4"	11S	15x6"
13S-D	24x4"	24S	15" (Round)



## Badger Humidifier

Supplies Humidity Automatically



Connects to the city water supply (not to a hot water pipe). The unit operates automatically when the furnace is in use. Pan is made of "EVERDUR" Metal.

### May Be Used With Any Furnace

The Badger Automatic Humidifier may be installed in the Hood or Plenum chamber of any size or make of furnace. Humidifier is supported at the rear by metal plate and adjustable ribbon, permitting Humidifier to be leveled. Overflow pipe protects the furnace in the event pan should ever be filled beyond capacity.

- 248G—For Gravity Bonnet Type Furnaces.
- 245S—For Square Casings and Plenum Chamber installation.
- 188G—For Gravity Bonnet Type Furnaces (18" and 20").
- 185S—For use in small square casings or plenum chambers.

### Badger Steel Radiator Covers

Badger Steel Radiator Covers are entirely constructed of rust resisting, crimped galvanized steel, properly reinforced. The crimps not only stiffen and strengthen the cover but add greatly to its appearance. In the upper part of cover, a leak proof reservoir is provided for water if wanted. All Radiator Covers are finished in Silver Aluminum.

Every Radiator should have a cover to protect the walls.

Badger Radiator Covers are built to fit any specification. On account of various sizes of Radiators, prices cannot be listed. Width, height and length of each Radiator to be covered must be specified when asking for prices.





## Furnace Accessories



Asbestos  
Sheathing

### Asbestos Sheathing

Used for wrapping Furnace Pipes  
18 and 36 inch wide—50 pound rolls.  
No. 12 (Standard) 12 pounds per 100 square feet.  
No. 14 (Heavy) 14 pounds per 100 square feet

### Asbestos Pipe-Joint Tape

1000 Lineal Feet per package, 12 rolls, each 3 inches wide

### Asbestos Dry Flour Paste

For Furnace, Boiler and Pipe  
Covering Work



In powder form. Instantly prepared by simply stirring into water.

Packed in 5lb. Bags,  
10 lb. Bags,  
25 lb. Drums,

50 lb. Drums, and  
100 lb. Jute Sacks

## Fireline

FIRELINE is something distinctly new—a plastic refractory material of industrial type perfected for domestic use. Embodied in Fireline is all the knowledge and experience gained through over 20 years of manufacturing refractory materials for the largest power stations, steel mills, and other industrial plants.



### Not Furnace Cement

Fireline is not a furnace cement. It should not be used for cementing joints between castings or for filling cracks. Fireline is a heat-resisting refractory material that should be used only as a lining around the entire firepot. Installed in this manner, Fireline will effectively seal all cracks and holes in the firepot casting.

### Correct Thickness

Fireline should not be expected to stick or adhere to the castings if smeared on the firepot in a thin layer. This material is self-supporting and should be built up from the bottom in the proper thickness.

In lining the firepot of a warm-air furnace, Fireline should never be installed less than 1 inch thick, while a thickness of 1½ or 2 inches is preferable.

In lining heating stoves with small firepots, Fireline may be installed less than 1 inch thick if necessary, but the material should always be installed at least 1 inch thick wherever possible.



Fireline is packed in 2½, 5, and 10 lb. cans and in 50 and 100 lb. steel drums, in moist, plastic condition, ready for use without mixing.

### Rutland Asbestos Furnace Cement

For making joints smoke-tight and gas-tight when installing or resetting warm air Furnaces and Oil Burning Equipment. Is not injured by freezing.

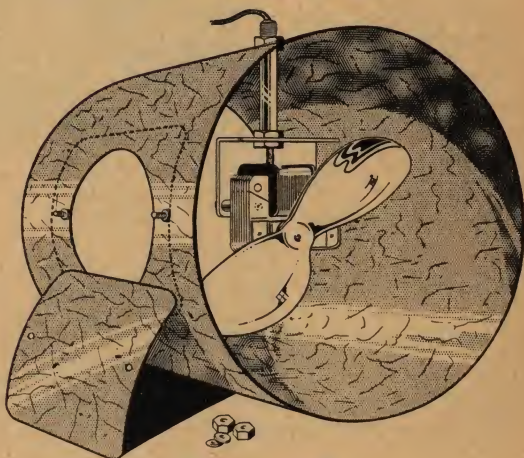


Size Cans  
1 lb.  
5 lb.  
10 lb.

Number to case  
24  
12  
6

Approx. Wt.  
30 lbs.  
70 lbs.  
70 lbs.

## Furnace Fan



### INSTALLATION

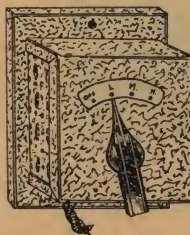
This is an efficient and effective fan for use in the cold air boot of a furnace, and for use in warm air leader pipes which do not heat well. It will fit any round or square pipe over 9". Use it to start circulation through the furnace, or continuously in cold weather. It has a convenient one-hole hanger.

Guaranteed for one year but will give years of satisfactory service.

### SPECIFICATIONS

Single Phase, Shaded-Pole Induction Motor. 115 volts, 60 cycles, A. C. current only. 22.5 watts, .42 amps., at continuous operation at 2400 R. P. M., H. P. .0030, 350 cu. F. P. M.

Will run steadily at full power without overheating. Temperature rise equal to A. I. E. E. Standard No. 1.



## 3 Speed Control Unit

This unit allows you to control the BOOSTER FAN from the room you are heating. With the three speeds adequate heat is obtainable for any room that your furnace does not heat properly.





## Furnace Accessories



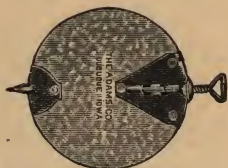
### Cast Iron Dampers

List prices per dozen:

3" Wire Handle.....	\$2.60
4" Wire Handle.....	2.80
5" Wire Handel.....	3.00
6" Wire Handle.....	3.50
7" Wire Handle.....	5.00
8" Wire Handle.....	8.00
9" Wire Handle.....	12.00
10" Wire Handle.....	15.00
12" Wire Handle.....	18.00

### Warm Air Dampers Clips and Tails

Every Warm Air Pipe should be provided with these substantial dampers. Made of 26 Gauge Steel Discs.



List Prices Each:

6"	\$0.40	14"	\$1.10
7"	.50	16"	1.30
8"	.60	18"	1.60
9"	.70	20"	2.00
10"	.80	22"	2.50
12"	.95	24"	2.95

### Damper Clips and Tail Pieces

No-Rivet Damper Clips and Tail Pieces—Non-Breakable, Inexpensive, save time, require no rivets and eliminate breakage.

List Prices

Clips, per dozen.....	\$1.10
Clips, per gross.....	13.20
Tail pieces, per dozen.....	.20
Tail pieces, per gross.....	2.40

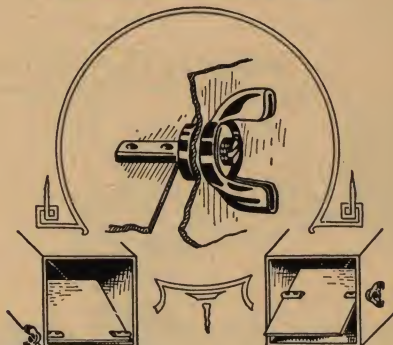
### Dial Damper Regulators

Made of Steel  
Galvanized Finish



Complete sets in  $\frac{1}{4}$ " and  $\frac{3}{8}$ " size. Complete sets contain Regulator, a pair of combination regular and splitter bearings, necessary screws and rivets.

### The GOESE TIME SAVERS DAMPER CONTROL



**Positive—Simplified.**  
Less labor to install. Insures Tight Vibrationless job. Can be used on either Flat, Square or Round Pipes. Regular or Splitter Dampers.  
Screw slot or threaded stud shows position of damper at a glance.

#### CADMIUM FINISH

To Adjust—Place screw driver in screw slot, release wing nut, adjust damper to the desired position and lock in place, with wing nut.  
Packed 12 Complete sets in package (rivets included).



### Hyro Damper Quadrants

For controlling dampers in heating and ventilating ducts, etc.

$\frac{3}{8}$ " Galvanized for dampers up to 20".  
 $\frac{1}{2}$ " Galvanized for dampers up to 30".  
 $\frac{5}{8}$ " Black for dampers 30" to 42".  
 $\frac{3}{4}$ " &  $\frac{7}{8}$ " Black for dampers 42" to 52".

### Damper Rod Clips



Galvanized Finish in  $\frac{3}{8}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ ",  $\frac{3}{4}$ " and  $\frac{7}{8}$ " sizes.



### Damper Bearings

Galvanized finish in  $\frac{3}{8}$ " and  $\frac{1}{2}$ " sizes.



## Badger Stove Pipe, Elbows and Accessories



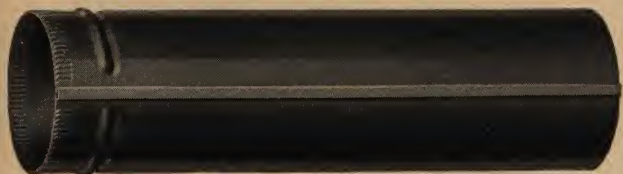
Pipe as shipped

### Stove Pipe

Made from Uniform Blue sheets in 26 and 28 Gauge, 3", 4", 5", 6" and 7" diameter, 24" lengths, as well as  $\frac{1}{4}$ ,  $\frac{1}{2}$  and  $\frac{3}{4}$ , 28 inch and 30 inch lengths.

Shipped K. D. nested 25 lengths in a carton.

Tapered Stove Pipe furnished in 7 to 6 inch size in 26 and 28 Gauge, uniform Blue.



Pipe made up.



Adjustable  
2" and 4" Ends



Corrugated  
2 $\frac{3}{8}$ " Ends

### Stove Pipe Elbows

Made from Uniform Blue Sheets in 26 and 28 Gauge, 3", 4", 5", 6" and 7", diameter. Shipped wired in bundles of twelve.



### Stove Pipe Tee Joints

Made from Uniform Blue Sheets 6" on 6" in 26 and 28 Gauge.

### Flue Reducer

Uniform Blue  
Sizes  
6 in. x 3 in.  
6 in. x 4 in.  
6 in. x 5 in.  
7 in. x 6 in.



### Oval Stove Pipe Reducers

One Piece

Made from Uniform Blue Sheets in 26 and 28 Gauge 7 to 6 inch.



No. 160

### Stove Pipe Collars

A clean cut neat looking collar.  
6" lacquered. 7" lacquered.



### Flue Stop

A simple yet effective Flue Stop. The wires fit tightly in the flue and hold the stop securely in place.  
No. 3—Green.





## Angles, Bands and Rounds

La Crosse Stock

### Galvanized Angles

Size in Inches	Weight per foot lbs.	Stock lengths feet
$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{8}$	.062	22
1 x 1 x $\frac{1}{8}$	.084	18
$1\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{8}$	1.06	22
$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8}$	1.89	22
2 x 2 x $\frac{1}{8}$	2.56	20-22

### Black Angles

Size in Inches	Weight per foot lbs.	Stock lengths feet
$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{8}$	.059	20-22

### Galvanized Bands

Size in Inches	Weight per foot lbs.	Stock lengths feet
$\frac{3}{4}$ No 12	.0292	22
1 No. 14	.0296	14
1 x $\frac{1}{8}$	.0446	22
$1\frac{1}{2} \times \frac{1}{8}$	.0669	22
2 x $\frac{1}{8}$	.0890	22
1 x $\frac{3}{16}$	.0670	22

## REMOV-ALL Wire Brush



Indestructible  
All Metal Sanitary

The BRUSH of a

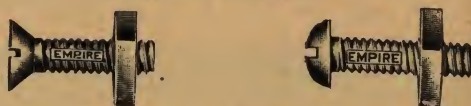
Hundred uses around the Home, Automobile,  
Garage, Factory and Shop.

INDISPENSIBLE

to Plumbers, Tinnerns, Steamfitters and  
Machinists for removing excess solder, etc.

Packed one dozen per box.

## Bright Stove Bolts



### FLAT HEAD AND ROUND HEAD LIST PRICE PER 100

Length	$\frac{1}{2}$ "	$\frac{3}{8}$ "	$\frac{3}{4}$ "	1"	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "
$\frac{3}{16}$ " Dia.	\$ .70	\$ .73	\$ .76	\$ .83	\$ .90	\$ 1.01
$\frac{1}{4}$ " Dia.	1.12	1.18	1.25	1.38	1.51	1.64
Length	$1\frac{1}{4}$ "	2"	$2\frac{1}{2}$ "	$2\frac{3}{4}$ "	3"	
$\frac{3}{16}$ " Dia.	\$1.12	\$1.27	\$1.41	\$1.59	\$1.75	\$1.95
$\frac{1}{4}$ " Dia.	1.80	1.98	2.16	2.34	2.55	2.75
$\frac{3}{32}$ " Dia. x $\frac{1}{2}$ " Long, Round Head	.60					

## Galvanized Round Head Stove Bolts In

$\frac{1}{4}$ " Dia.  $\frac{3}{8}$ " long— $\frac{1}{4}$ " Dia.  $\frac{3}{8}$ " and  $\frac{3}{4}$ " long.



### Flat Head Rivets Metallic Tinned



List Price per 1000—Black

8 oz.	10 oz.	12 oz.	1 lb.	$1\frac{1}{4}$ lb.	$1\frac{1}{2}$ lb.
\$ .32	\$ .36	\$ .41	\$ .48	\$ .54	\$ .62
$1\frac{1}{4}$ lb.	2 lb.	$2\frac{1}{2}$ lb.	3 lb.	$3\frac{1}{2}$ lb.	4 lb.
\$ .67	\$ .72	\$ .83	\$ .96	\$ 1.09	\$ 1.20
5 lb.	6 lb.	7 lb.	8 lb.	10 lb.	12 lb.
\$ 1.30	\$ 1.50	\$ 1.75	\$ 2.00	\$ 2.40	\$ 2.64

Metallic Tinning Extra.



## Parker-Kalon Type "A" Hardened Self-Tapping Sheet Metal Screws Round Head- Galvanized

Packed 1 Gross per box  
Stock Sizes

No. 6— $\frac{3}{32}$ " Diameter	$\frac{3}{8}$ " long
No. 7— $\frac{1}{8}$ " Diameter	$\frac{3}{4}$ " long
No. 10— $\frac{1}{16}$ " Diameter	$\frac{3}{4}$ " long
No. 14— $\frac{1}{4}$ " Diameter	$\frac{3}{8}$ " long

## Parker-Kalon Plain & Stop Punches



Plain



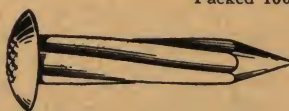
Stop

Stock Sizes

Plain Punch fits all screws.  
Stop Punch for No. 6, 7, 10 and 14 Screws

## Parker-Kalon Hardened Masonry Nails

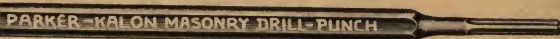
Galvanized  
Packed 100 per box



Stock Sizes

$\frac{5}{32}$ " Diameter	1" long
$\frac{1}{4}$ " Diameter	$1\frac{1}{2}$ " long
$\frac{1}{4}$ " Diameter	2" long

## Parker-Kalon Masonry Drill-Punches



Stock Sizes  
For  $\frac{5}{32}$ " and  $\frac{1}{4}$ " Nails.



## Tinners Tools

In La Crosse Stock, Ready for Immediate Delivery

### No. 3 Solbar Screw Drivers



Inches	3	5	6	8	10	12
Length overall	7 1/4	9 3/4	10 3/4	13 1/4	16 1/4	18 1/4

### Grooving Tools



	HAND GROOVER				
Number	000	00	0	1	
Size Groove	1/2	7/16	3/8	1 1/2	
Number	2	3	4	5	6
Size Groove	5/16	1/2	1/2	5/8	3/4

### Rivet Sets and Headers



#### NO. 46—TINNER'S SPECIAL FORGED STEEL RIVET SET FULL POLISHED

Number	00	0	1	2	3
Size Rivets	14, 16	10, 12	7, 8	6	4, 5
Number	4	5	6	7	
Size Rivets	3, 3 1/2	2, 2 1/2	1 1/2, 1 3/4	1, 1 1/4	

### Hollow Punches



Size	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"
Size	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/2"

Can furnish 1/16" to 4" diameter.

### No. 330 Krauter Cold Chisels



Krauter Cold Chisels are drop forged from "Chrome-Molly" Steel, a special chromium molybdenum alloy, particularly suitable for edged tools.

Their cutting edges are hard and, at the same time, tough and durable.

Each one is individually tested.

Black finish—both ends polished. Stock number and size are plainly marked on one side—a convenience to both dealer and user.

Face.....	3/8"	1/2"	5/8"	3/4"
Stock.....	3/8"	1/2"	5/8"	3/4"
Length.....	5"	6"	6 1/2"	7"

### Solid Punches



Number	1	2	5	6	7
Size Rivets	14	12	4, 5, 6	3, 3 1/2	2, 2 1/2

### Prick Punches No. 38



Size, approx.—4 1/2" long

### Scratch Awls



No. 01—Ring Scratch Awl, solid steel, length 8 inch.

### Steel Top Scratch Awls



Number	21	22
Length Overall	5 7/8 in.	6 1/2 in.

### Dividers

No. 165

Forged Steel—Nickel Plated—Hardened Point



Sizes	6"	8"	10"	12"
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### Wood Roofing Folder

No. 23-C	Size of sheets 28"	Forms locks 1/8"	Weight 11 lbs.
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### Bishop's Quick Working Forms



The Tool	Stock Sizes	The Work
3 1/2"	4"	5"
		6"





### Wiss Tinner's Snips



No.	Full Length Inches	Length of Cut Inches	Wt. Ea. Lbs.
9	12½	3	2
8	13¼	3½	2½
7	14½	4	3

### Hawks Bill Combination Scroll and Circular Snip



No.	Cuts	Length of Cut	Length Overall
15	28 Ga.	2½"	11½"
23	20 Ga.	2½"	13"

### Wiss Circular Blade Pattern



No.	FORGED STEEL Full Length Inches	Length of Cut Inches	Wt. Ea. Lbs.
9 C. B.	12½	3	2
8 C. B.	13¼	3½	2½

### Trojan Pattern Sharp Pointed Snips



No.	Cuts	Length of Cut	Length Overall
79	26 Ga.	3"	13"

### Wiss Tinner's Snips



### FORGED STEEL—COMBINATION PATTERN

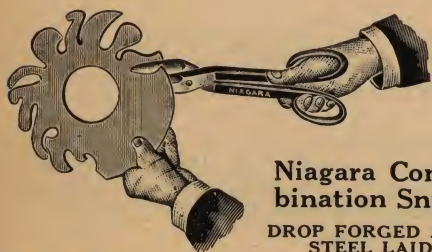
No.	Full Length Inches	Length of Cut Inches	Wt. Ea. Lbs.
19	12½	3	1½
18	13½	3½	2½
17	14½	4	2½

### Wiss Scroll-Pivoter Snip



Note the blades lie flat exactly opposite from the ordinary cutting blade. With this flat blade you can slip around corners, circles and make any angle cut you want. It pivots as it cuts!

Number	Length	Weight	Finish
9X	12 in.	1¾ lbs.	Dull Gray Nickel



### Niagara Combination Snips

DROP FORGED AND  
STEEL LAID

New No.	Old No.	Length of Cut Inches	Length Overall Inches	Wt. Ea. Lbs.	Cuts
614	17	3½	14	2½	24 Ga.
615	18	3¼	13	2¼	26 Ga.
616	19	2¾	12	1¾	28 Ga.

Extra bolts and nuts for above snips in stock.

### Wiss Bulldog Snip



Short powerful jaws and long handles give wonderful leverage.

Number	Length Overall	Wt. Ea. Lbs.
17	17	3½

### Double Cutting Shears



No. 2A—Double Cutting Shears, with Pipe Crimper; length 12¾".  
NO. 02A—Double Cutting Shears, without Pipe Crimpers; length 12¾".



## Tinners Tools

### No. 800 Handy Slitting Chisel



In cutting square, round or irregular shaped holes in 16 gauge and lighter material, force the point of tool into the metal, making a small hole, then insert lower hook cutter in hole or slot and drive it like a cold chisel. Quickly and easily cuts out shapes, slots and small irregular openings in sheet metal up to 16 gauge. Looks simple and is simple but it does a good job. Drop forged from special steel.

### Handy Seamers

No. 793 - Drop Forged Steel.

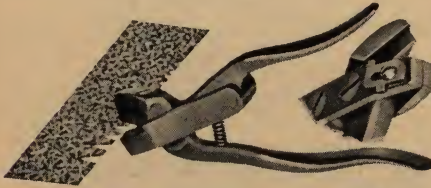
Specially Adapted for Air Conditioning Work



Just the right size . . . just the right weight . . . for greater usefulness in the shop or out on the job. Made from solid steel forgings. Equipped with two steel gauging screws and lock nuts having gauging range from  $\frac{1}{4}$ " to 1". Width of blade  $3\frac{1}{2}$  inches. Length overall  $8\frac{1}{4}$  inches. Weight 18 ounces. Beveled polished blades. Black enameled handles. An exceptionally handy little tool.

#### JUMBO HANDY SEAMER

Number	Weight	Length Overall	Width of Blade
795	3 Lb.	$10\frac{1}{4}$ "	$6\frac{1}{8}$ "



### No. 41 Hand Notcher

Makes notches of any depth up to  $\frac{13}{16}$ " - capacity 20 Gauge  
Weight 1 lb.

### Light Metal Snips No. J-7

With curved Blades

Made of fine tool steel, accurately tempered, and is ideal for all-purpose light work. It is a surprisingly powerful cutter.

Number	Length	Cut	Wt. per Doz.
J-7	7 in.	$1\frac{1}{4}$ in.	3 lbs.



### Wiss Metal-Master

Compound Action Snips



#### TWO MATCHED PATTERNS

Furnished to cut either "to right", or "to left". Cut circles, squares and any irregular patterns on Stainless, Dural and Monel metals with the greatest of ease.

No.		Length Overall	Wt. Ea. Lbs.
M-1	Left Cut for Right Hand Man.....	10	12 oz.
M-2	Right Cut for Left Hand Man.....	10	12 oz.





## No. 40 Side Cutting Pliers



LAP JOINT

Stock Sizes—6" long, 8" long.

## No. 87 Button Pattern Pliers



Knurled Handles—Full Polish  
Stock Sizes 8 inch, 10 inch long

## Improved Cutting Nippers



WITH INTERCHANGEABLE CUTTERS

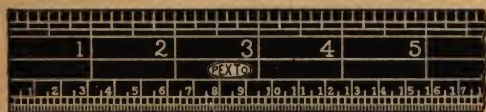
No. 1—12 inches long. No. 3—10 inches long.  
We have extra cutters for above.

## Stanley Aluminum Rules RIVETED JOINTS



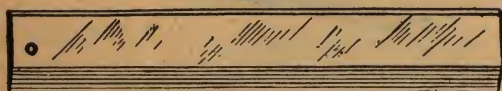
No. 424.....4 foot

## Flexible Steel Circumference Rule



No. 101—3 foot polished

## Steel Straight Edge



Made of Steel with Beveled Edges

Number	994	995
Length, inches	48	96
Size, inches	$2\frac{1}{2} \times \frac{3}{16}$	$2\frac{1}{2} \times \frac{3}{8}$
Weight, lbs.	$7\frac{1}{2}$	15

## Fire Pot and Torch



No. 180  
(Old No. 85) (One Gallon).  
For gasoline.



No. 158A (Quart Size).  
For gasoline.

We also furnish Soldering Pots for use with City Gas.

## Soldering Coppers



Stock Sizes: 1— $1\frac{1}{2}$ —2— $2\frac{1}{2}$ —3—4—5—6—8  
10 and 12lb.

## Hyro Shur-Grip Solder Iron Handles

The handle that screws on the stem of a solder iron and won't come off unless unscrewed. It holds copper rigid—stays cool—and can't split. Makes soldering a pleasure.



(Patented)

Stock Sizes

No. 7 For  $1\frac{1}{2}$  to 4lb. Iron.

No. 8 For 4 to 8lb. Iron.

No. 9 For 8 to 12lb. Iron.

We also have Common Soldering Copper Handles.

## Acid Swabs



Packed 1 Gross per box.

## Solder



Our Own Warranted 50x50 Brand. Packed in 50 and 100 pound boxes.

## Acid Core Solder

Packed in 1 and 5 lb. spools.





## Hyro No. O. X. Metal Punch



The latest Hyro No. O. X. is an even finer Punch than the former model which for years has been famous among sheet metal workers.

It measures only 8" overall and weighs but 2 $\frac{5}{8}$  lbs., yet it will punch holes up to  $\frac{1}{4}$ " diameter in 14 gauge steel or equivalent.

It now comes complete with 7 Punches and Dies (one each  $\frac{3}{32}$ ",  $\frac{1}{8}$ ",  $\frac{5}{32}$ ",  $\frac{3}{16}$ ",  $\frac{1}{2}$ ",  $\frac{1}{4}$ ",  $\frac{1}{16}$ ") in a handsome, sturdy steel tool case.

Extra Punches and Dies furnished in following stock sizes.

**PUNCHES:**  $\frac{3}{32}$ ",  $\frac{1}{8}$ ",  $\frac{5}{32}$ ",  $\frac{3}{16}$ ",  $\frac{1}{2}$ ",  $\frac{1}{4}$ ", and  $\frac{1}{16}$ ".

**DIES:**  $\frac{3}{32}$ ",  $\frac{1}{8}$ ",  $\frac{5}{32}$ ",  $\frac{3}{16}$ ",  $\frac{1}{2}$ ",  $\frac{1}{4}$ " and  $\frac{1}{16}$ ".

Intermediate sizes of Punches and Dies can also be furnished.

## Hyro No. X.X. Metal Punch



The Hyro No. X. X. Punch has a throat opening of 3 $\frac{1}{2}$ " deep by 2 $\frac{1}{8}$ " high, wide enough to accommodate irregular shapes, forms and intricate sections. The Punch and Die are exposed to the view of the user, thus making it simple and easy to punch holes exactly where they are required. It will punch clean holes with remarkable ease in all gauges of sheet metal within its capacity, which is  $\frac{1}{4}$ " hole in 14 gauge;  $\frac{3}{8}$ " hole in 16 gauge;  $\frac{1}{2}$ " hole in 18 gauge; or equivalents. The Punches and Dies are quickly and easily changed.

Every part of this Tool is built for long, hard service. Frame and handle are steel forgings and all moving parts are of tool steel individually hardened and tempered.

The Hyro No. X.X. Punch is furnished complete with bench stand, gauge, stripper, and one Punch and Die of any stock size.

Punches and Dies are stocked in a range of sizes

from  $\frac{3}{32}$ " to  $\frac{1}{16}$ " by 32nds.

Intermediate sizes and special shapes of Punches and Dies can also be furnished.

## Silver City Squaring Shears



Number	132	137
Nominal cutting length . ins.	30	36
Width of bed . . . . . ins.	14	14
Back Gauge Range . up to ins.	25	25
Front gauge range . up to ins	37	37
Floor space F to B, R to L without front and back brackets . . . . . ins.	30x42	30x48
Floor space F to B, R to L, with front and back brackets . . . . . ins.	72x42	72x48
Height overall . . . . . ins.	44	44
Shipped on skids, weight . . . . . approx. lbs.	540	650

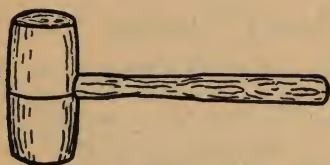
Nos. 132 and 137 are fitted with compression springs fully enclosed, long front arms, and cast treadles. Complete bed and rear gauge equipment also furnished. No. 137 is regularly equipped with spring-actuated hold-down attachment which also serves as a finger guard. No. 132 does not have hold-down attachment. For school use finger guard should be specified—this will be applied at no extra cost.

Capacity—No. 18 gauge soft steel and lighter





## Dogwood Mallets



No.	Dia. Face	Length
2	2"	5"
2 1/2	2 1/2"	5 1/2"
2 3/4	2 3/4"	5 3/4"
3	3"	6"

## Miller Composition Mallets



No.	Black	Dia. Face	Length
16	Black	2 1/2"	4 1/2"
24	Black	2 3/8"	5 1/2"

## No. 0581 Combination Crimping and Beading Machine



Designed for serving the requirements of the large or small sheet metal shop and an inexpensive desirable addition to the stove pipe department of the hardware store.

Frame is one piece. Enclosed gears are steel machine cut. Beading and crimping rolls are countersunk and held on arbors with round nuts which leave the face of rolls flush with arbors.

A pair of steel blank collars accompany each machine and when these collars are substituted for beading rolls, same machine is converted

into a plain crimping machine.

Adjustment is provided for changing slightly the relative depth of crimp.

No. 975 Bench Standard furnished.

Number	Straight Crimp	0581
Capacity soft steel.....	gauge	24
Width crimping rolls.....	ins.	1 3/4
Width beading rolls.....	ins.	1
Diameter beading rolls.....	ins.	1 15/16
Diameter crimping rolls.....	ins.	1 15/16
Size ogce bead.....	ins.	3/2
Shipped boxed regularly.....	approx. lbs.	30

## No. 2 Whitney Hand Punch



Length 23 inches, capacity 5/8 inch hole through 1/4 inch iron.

Furnished with one Punch and Die.

Extra Punches and Dies furnished in sizes, 1/8 inch to 1/2 inch by 64ths.

We can furnish any style Whitney Punch

## Tinners Hammers



### BEVELED RIVETING HAMMER—POLISHED HEAD, HICKORY HANDLE

Number	1	2	3	4
Size of Face	1 1/8"	1"	3/8"	3/4"
Weight, oz.	20	16	14	10



### SQUARE FACE SETTING HAMMER—POLISHED HEAD, HICKORY HANDLE

Number	1	2	3	4
Size of Face	1 1/8"	1"	15/16"	1 1/16"
Weight, oz.	20	16	14	10

Can be furnished with chamfered face at same price.

## NEW PORTABLE CHICAGO STEEL BENDING BRAKE



### WHAT IT WILL DO

Bend and flatten 1/4" or wider seam on 22 gauge.

Bend 1/2" flange or wider on 20 gauge.

It is general practice on large ventilating and air conditioning jobs to set up shop right on the job. Because of ease of transportation Chicago Steel Brakes have been the most popular.

Now a Chicago Steel Brake has been developed to use on the small job as well as the large one.

Legs are hinged to swing up - clamping handles are made to be used for carrying brake. Swinging the hinged legs into position is the only change necessary when getting Brake ready to move - can easily be handled by two men.

When setting up bring the hinged legs to the upright position and lock.

This brake is built to fill a definite need in air conditioning work, yet it retains all the features of the regular Chicago Steel Brakes except for the great difference in weight.

It is not a bench machine. It is a standard brake in every way and is therefore ideal for general shop use and in trade schools. All bending is done in the same manner as on the larger machines.

Size	Code	Bending Length	Capacity	Overall Length	Net Weight	Shipping Weight
420	Odluw	49 in.	20 ga.	62 in.	320 lbs.	355 lbs.
520	Oduet	61 in.	20 ga.	74 in.	360 lbs.	400 lbs.

Both sizes—Overall width 24", Overall height folded 28", set up 44".





## Improved Adjustable Bar Folder

(PATENTED)



No. 63 Illustrated

Number		62	63
Length for Sheets.....	ins.	20	30
Capacity, soft steel.....	Ga.	22	22
Gauging range Closed or Open Locks.....	ins.	$\frac{1}{8}$ to 1	$\frac{1}{8}$ to 1
Minimum width of folds, 22 ga. soft steel.....	ins.	$\frac{3}{16}$	$\frac{3}{16}$
Minimum width of folds, 24 ga. soft steel.....	ins.	$\frac{1}{8}$	$\frac{1}{8}$
Minimum width of folds, 28 ga. soft steel.....	ins.	$\frac{3}{32}$	$\frac{3}{32}$
Round folds for wire maximum diameter.....	ins.	$\frac{1}{4}$	$\frac{1}{4}$
Shipped boxed.....	approx. lbs.	140	220

NOTE:—Regularly furnished without counterbalance attachment. Spring Counterbalance can be applied at extra charge.

## Improved Lightning Slip Roll Forming Machines

(PATENTED)



2 INCH ROLLS

Number—Hand drive		382	381
Number—Tight pulley drive		1382	1381
Capacity soft steel.....	ga.	22	22
Length of rolls for sheets.....	width ins.	30	36
Diameter of rolls.....	ins.	2	2
Speed of rolls, pulley drive.....	r. p. m.	75	75
Size of pulleys.....	ins.	$12 \times 2 \frac{1}{2}$	$12 \times 2 \frac{1}{2}$
Shipped boxed, hand.....	approx. lbs.	220	245
Shipped boxed, power.....	approx. lbs.	250	275

NOTE:—Floor legs can be furnished at extra cost. Can be arranged with belted motor drive attachment mounted on floor legs at extra cost. Upper and lower rolls are driven. At an extra cost all three rolls can be arranged driven.

## Chicago Steel Hand Brakes

No. 818—Length, 8 ft. 1 in. Capacity, 18 Gauge  
Weight 1010 pounds.

Regular Equipment consists of a  $\frac{1}{4}$  inch detachable steel bar or apron, angle bar for heavy bending, improved adjustable stop gauge for regulating angle of bends and wrenches to fit adjustable parts. Molding Forms and Clamps are charged for extra.

We can furnish any style or size of brake.







## "Marshalltown" Throatless Shear



**CAPACITY—** 18 gauge and lighter, cuts  $1\frac{3}{4}$ " radius. No limit to size of sheet that can be cut.  
**CUTTERS—** Size  $2\frac{1}{2} \times \frac{1}{2}$ " made of high grade tool steel. Upper cutter driven and slightly knurled to feed material.  
**ADJUSTMENT—** Made easily. Full instructions furnished with each Shear.  
**SIZE OF SHEAR—** Height,  $19\frac{1}{2}$ ".

### MATERIAL USED IN CONSTRUCTION—

Head—Cast Steel.  
 Base—Cast Iron.  
 Gears—Steel and Cast Iron.

Shipping Weight 45 lbs.

No. 18-H Shear can also be furnished for Belt Power and Motor drive.

### Cast Iron Adjustable Support

This Cast Iron Adjustable Support is for bolting to bench leg to set up the No. 18 Shear for straight splitting. The Shear can then be raised or lowered and brought to any angle desired, or can be dropped below the top of the bench out of the way.

Shipping weight 19 lbs.

## Pexto Universal Rotary Combination Machine

Indispensable Equipment for the  
 Air Conditioning Contractor  
 For . . . Turning Elbow Edging  
 Burring Collar Edging  
 Wiring and Flanging operations

The only machine embodying all the following features: Heavy one-piece frame. Solid steel, quiet running machine-cut gears. Gauge that can be used on both front and back of machine. Hardened steel rolls, keyed to shafts instead of threaded, and held by countersunk lock nuts, eliminating all danger of rolls turning off arbors. Forged steel crank for depressing top roll. Spring cushioned journal box and knurled lock nut for lower roll adjustment. Steel adjustable-throw drive crank.

Distance between shaft centers. . . 2 inches

Shipping weight, approximately 33 lbs.

### Specify Roll Combinations From Following Numbers

- No. 544 Less rolls  
 No. 1544 With one pair each "A" thin turning rolls; "B" thick turning rolls; "C" burring rolls (and spare upper roll) and "D" Wiring rolls.  
 (No. 1 Elbow Edging rolls extra when specified.)  
 No. 2544 With one pair each "A" and "B" rolls only.  
 No. 3544 With one pair "C" rolls and spare upper roll only.  
 No. 4544 With one pair "D" rolls only.  
 No. 5544 With one pair No. 1 Elbow Edging rolls only.  
 Offset standard and spanner wrench standard equipment on all machines.  
 No. 6544 With one pair "L" first operation flanging rolls, including special curved gauge.  
 No. 7544 With one pair "M" second operation flange flattening rolls, including regular two-in-one gauge.

No. 6544  
 WITH FIRST  
 OPERATION  
 "L" Rolls



Heretofore made special on orders only, First Operation "L" Flanging Rolls with curved gauge to accommodate 3" radius, and Second Operation "M" Flange Flattening Rolls, are now available from stock to fit this machine. One pass of material through "L" rolls turns flange part way. Then one pass through "M" rolls flattens and completes a 90 degree flange. Maximum height of flange  $\frac{3}{8}$ ". When ordered with machine specify by numbers given below.

No. 7544  
 WITH SECOND  
 OPERATION  
 "M" Rolls



Maximum flange  $\frac{3}{8}$ ", 22 gauge.

Minimum radius of curved gauge for inside flanging work 3".

Minimum radius of inside flange  $3\frac{3}{4}$ ".





## Ladders



Single



### Step Ladders

A high quality Step Ladder at a very low price.  
Made of Fir—full rodded and with safe, convenient, wooden, hand-grip center spreader.

Pressed steel top brackets. All edges neatly rounded.  
Lengths 4, 5, 6, 7, 8 and 10 foot.  
Weight about  $2\frac{1}{2}$  lbs. per foot.

### Single and Extension Ladders

Side rails are made of choice, clear straight grained Fir.  
Clear second growth Hickory rounds.  
The holes are bored clear through the side-rails. Every hole and ends of rounds are seared to seal the pores. This process makes moisture proof and tight fitting joints, which will never become loose or rickety.

### SINGLE LADDERS

Length 10—12—14—16—18—20 feet.

Weight about  $1\frac{3}{4}$  lbs. per foot.

### AUTOMATIC EXTENSION

Length feet	Length Sections, feet
20 . . . . .	8—12
24 . . . . .	10—14
26 . . . . .	12—14
28 . . . . .	12—16
30 . . . . .	14—16
32 . . . . .	14—18
34 . . . . .	16—18
36 . . . . .	16—20
38 . . . . .	18—20
40 . . . . .	18—22
42 . . . . .	20—22

Weight about  $2\frac{1}{2}$  lbs. per foot.

Specify if even length sections are wanted.  
We can also furnish Rope and Pulley.  
If interested in any other styles, write for complete Ladder Circular.



Automatic  
Extension





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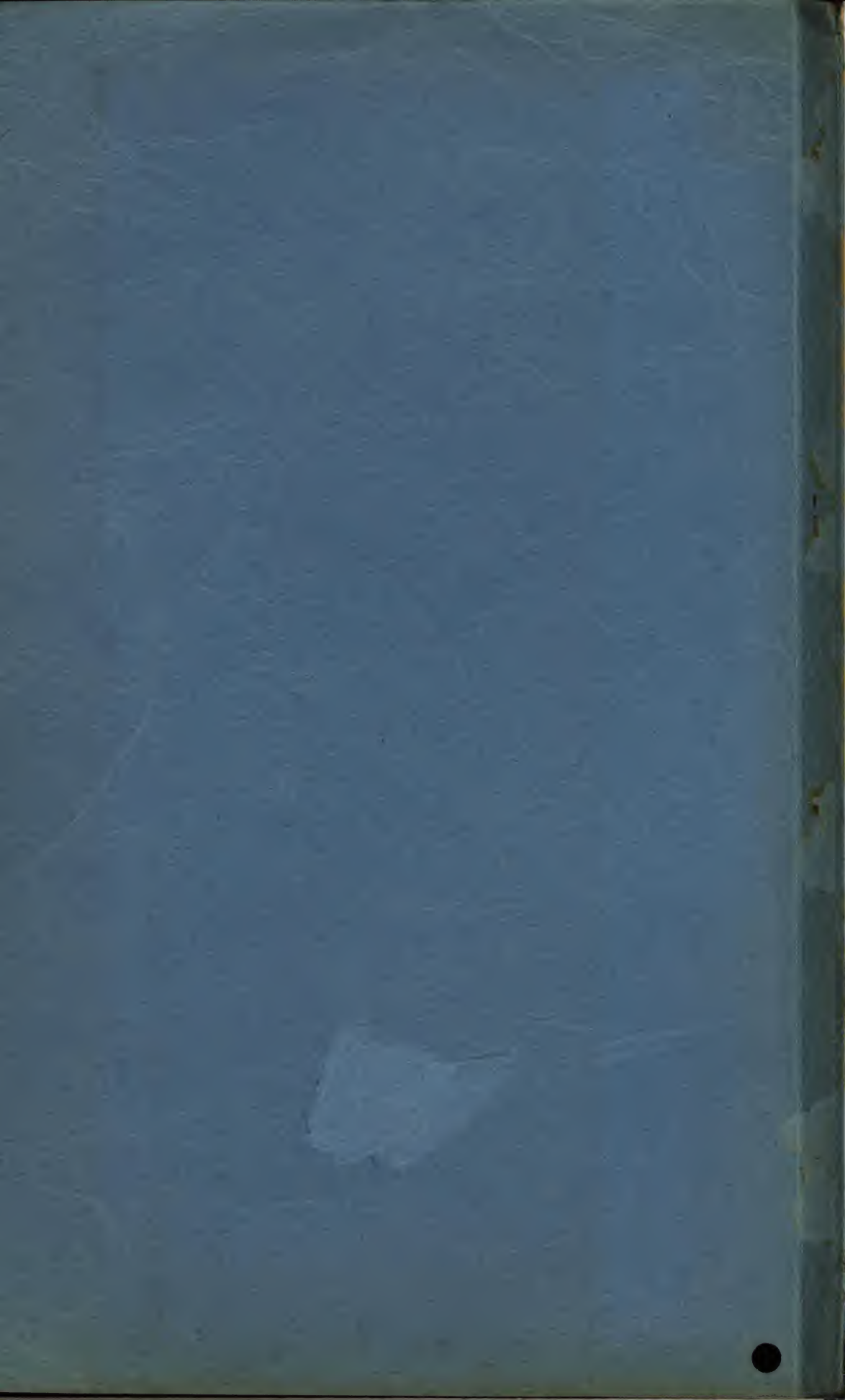
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**KEEP YOUR  
PRICE LIST  
CATALOG 39  
IN THIS  
POCKET**







"THE EMBLEM OF QUALITY"

**W**HEN buying Sheet Metal Building products it is to your interest to see that they bear this Trade Mark. It is an absolute guarantee of the very highest quality materials, combined with perfect workmanship, and backed by a company reputed to provide only the most satisfactory service and the very best materials.

**Save with Steel**

***Badger***

**DEALERS**

**Central Territory**

# **NET PRICE LIST**

**EFFECTIVE AUGUST, 1939**

(Cancels March 15, 1939 List)

**Applying to General Catalog No. 39**

➔ **All Prices Subject to Change** ➔  
**Without Notice**



***Badger***

**SHEET METAL BUILDING**

## **PRODUCTS**

**BADGER CORRUGATING CO.**

**LA CROSSE, WIS.**

**Phone 3650**

**1801 West Ave. So.**

**P. O. Box 827.**



# Central Territory

Consists of the State of New York (west of and including the Counties of Oswego, Oneida, Madison, Chenango and Broome), Pennsylvania (west of and including the Counties of Tioga, Lycoming, Clinton, Center, Huntington and Fulton), Maryland (Garrett and Alleghany Counties only), West Virginia, Ohio, Kentucky, Indiana, Illinois, Southern Peninsula of Michigan and Wisconsin. Also Cities of Minneapolis, St. Paul and Duluth.

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## Freight Allowance

As Per Above Territories

EAVES TROUGH, CONDUCTOR PIPE, ROOF AND BOX GUTTER, CONT. HIP SHINGLES, CONT. ORNAMENTAL RIDGE, ORNAMENTAL RIDGE AND HIP TILE, PLAIN, CORRUGATED AND TYL-LYKE RIDGE ROLLS, TRIANGULAR RIDGING, V ANGLE RIDGE CAP, GALVANIZED FORMED AND GALVANIZED AND TIN ROLL VALLEY—actual freight only allowed on lots of not less than 500 linear feet or more.

MITRES, ENDS AND DROPS, WIRE AND STEEL HANGERS, CONDUCTOR REDUCERS, WIRE STRAINERS, WIRE PIPE HANGERS, CUT-OFFS, RIDGE ROLL FINIALS—Freight allowed when shipped with other goods taking freight allowance.

BUILDING CORNERS AND FLAT SHINGLES—Freight allowed in lots of 1000 or more.

BARN BATTEN AND ROOF EDGE—Freight allowed on 1000 feet or more.

ZINC SIDING MOULDING—Freight allowed in lots of 500 feet or more.

ELBOWS AND SHOES—Freight allowed on lots of 15 dozen or more, or when shipped with other goods taking freight allowance.

CONDUCTOR HOOKS—Freight allowed when shipped with Trough and Pipe or in 300 lb. lots.

# Catalog      **\* GALVANIZED STEEL EAVES TROUGH**

Page      **Net Prices per 100 Linear Feet**

## Single Bead—Slip Joint

3	Size	28 Ga.	26 Ga.
	3½ inch.....	\$ 4.47	\$5.41
	4 inch.....	4.94	5.88
	5 inch.....	5.17	6.11
	6 inch.....	6.35	7.76
	7 inch.....	7.99	9.87
	8 inch.....	10.34	12.22

## Double Bead—Slip Joint

Size	28 Ga.	26 Ga.
3½ inch.....	\$ 5.88	\$ 7.05
4 inch.....	6.35	7.52
5 inch.....	6.82	7.99
6 inch.....	8.23	9.87
7 inch.....	9.64	12.22
8 inch.....	12.22	14.57

Less than 250 ft. lots 10% extra.

Other Styles made of Galvanized Steel..... 76½%

Made of Galvanized Toncan Metal.....70%

Made of Pure Copper.....Write for prices

# 4      **BADGER ONE PIECE MITRES**

**Galvanized After Formed**

**Net Prices per Dozen**

Slip Joint	Single Bead		Double Bead	
	28 Ga.	26 Ga.	28 Ga.	26 Ga.
3½ inch.....	\$3.68	\$4.20	\$4.73	\$5.40
4 inch.....	3.85	4.40	4.90	5.60
5 inch.....	4.29	4.90	5.34	6.10
6 inch.....	5.16	5.90	6.21	7.10
7 inch.....	6.56	7.50	7.61	8.70

Other Styles made of Galvanized Steel 28 Ga.....65%

26 Ga.....60%

Made of Galvanized Toncan Metal ..28 Ga.....60%

26 Ga.....50%

Made of Pure Copper.....Write for prices

## END PIECES—DROPS AND CAPS

**Galvanized—Double Seamed**

**Net Prices per Dozen**

28 Ga.	12 in. D.Ends		BDrops	CEnds	Slip
Size	S.B.	D.B.	only	only	Jt.Con.
2 inch.....	\$ ...	\$ ...	\$ .72	\$ ...	\$ ...
3 inch.....	...	...	.86	...	...
3½ inch.....	2.04	2.49	...	1.08	.84
4 inch.....	2.22	2.61	1.08	1.14	.90
5 inch.....	2.55	2.94	1.41	1.20	.96
6 inch.....	2.94	3.36	1.74	1.44	1.20
7 inch.....	3.30	3.87	...	1.74	...

26 Ga.	12 in. D.Ends		BDrops	CEnds	Slip
Size	S.B.	D.B.	only	only	Jt.Con.
2 inch.....	\$ ...	\$ ...	\$ .96	\$ ...	\$ ...
3 inch.....	...	...	1.16	...	...
3½ inch.....	2.72	3.32	...	1.44	1.12
4 inch.....	2.96	3.48	1.44	1.52	1.20
5 inch.....	3.40	3.92	1.88	1.60	1.28
6 inch.....	3.92	4.48	2.32	1.92	1.60
7 inch.....	4.40	5.16	...	2.32	...

Made of Galvanized Toncan Metal....28 Ga.....20%

26 Ga.....15%

Made of Pure Copper.....Write for prices

Actual Freight only allowed when ordered in lots of 500 feet or more,  
as outlined on inside front cover.



# WIRE EAVES TROUGH HANGERS

Size	Net Prices per Gross		Extension	
	Triple S.B.	Twist D. B.	S. B.	D. B.
3½ inch.....	\$2.61	\$2.85	\$2.75	\$3.00
4 inch.....	2.61	2.85	2.75	3.00
5 inch.....	2.85	3.09	3.00	3.25
6 inch.....	3.33	3.56	3.50	3.75
7 inch.....	3.80	4.04	4.00	4.25
8 inch.....	4.28	4.51	4.50	4.75
Extra for 10 in. stems	.48	.48	.50	.50

# STEEL EAVES TROUGH HANGERS

Single Bead	Net prices per Gross		Titelock S.B. Only
	Rods and Nuts complete	Steel Strap riveted to cross bar	
3½ inch.....	\$5.76	\$4.74	\$3.50
4 inch.....	6.06	5.10	3.75
5 inch.....	6.42	5.46	4.00
6 inch.....	7.08	6.12	5.50
7 inch.....	8.46	7.44	6.00
8 inch.....	11.16	10.14	6.50
For Double Bead—add 35c per gross.			
Hanger Tong—Net each \$0.75.			
Copper Hangers—Write for prices.			

# 6 \* GALVANIZED STEEL CONDUCTOR PIPE

Corrugated or Plain Round

Net Prices per 100 Linear Feet

Size	Nested Solid	
	28 Ga.	26 Ga.
2 inch.....	\$ 4.32	\$ 5.52
3 inch.....	4.80	5.76
4 inch.....	6.72	8.16
5 inch.....	9.36	11.04
6 inch.....	12.00	13.92

Not Nested Solid

Size	28 Ga.		26 Ga.	
	28 Ga.	26 Ga.	28 Ga.	26 Ga.
2 inch.....	\$ 4.59	\$ 5.87		
3 inch.....	5.10	6.12		
4 inch.....	7.14	8.67		
5 inch.....	9.95	11.73		
6 inch.....	12.75	14.79		

# \* SQUARE CORRUGATED PIPE

Size	Nested Solid		Not Nested	
	28 Ga.	26 Ga.	28 Ga.	26 Ga.
2 inch.....	\$ 5.52	\$ 6.96	\$ 5.87	\$ 7.40
3 inch.....	5.76	7.20	6.12	7.65
4 inch.....	7.44	9.12	7.91	9.69
5 inch.....	10.08	12.00	10.71	12.75

Less than 250 ft. lots, 10% extra.

Made of Galvanized Toncan Metal—nested.....69%

Made of Galvanized Toncan Metal—not nested ..68%

Made of Pure Copper.....Write for prices

# 7 GALVANIZED CONDUCTOR PIPE ELBOWS

Corrugated and Plain Round

Net Prices per Dozen

	2 In.	3 In.	4 In.	5 In.	6 In.
28 Ga....	\$1.54	\$1.84	\$3.08	\$6.41	\$7.70
26 Ga....	1.88	2.26	3.76	7.84	9.41

Square Corrugated

28 Ga....	2.28	2.85	4.28	8.55	....
26 Ga....	2.74	3.42	5.13	10.26	....

Galv. Shoes...28 Ga...Round 55-5%...Square 50-5%

Galv. Shoes...26 Ga...Round 45-5%...Square 40-5%

Made of Galvanized Toncan Metal

Corrugated and Plain Round

Square

28 Ga.	26 Ga.	28 Ga.	26 Ga.
55-5%	45-5%	50-5%	40-5%

Made of Pure Copper.....Write for prices

Actual Freight only allowed when ordered on lots of 500 feet or more, as outlined on inside front cover.

**GALVANIZED CUTOFFS****Corrugated Round****Plain Round**

	28 Ga.	26 Ga.	28 Ga.	26 Ga.
2 inch.....	\$ 4.64	\$ 4.99	\$ 4.64	\$ 4.99
3 inch.....	4.94	5.32	4.94	5.32
4 inch.....	6.79	7.32	6.79	7.32
5 inch.....	12.35	13.30	12.35	13.30
6 inch.....	14.82	15.96	14.82	15.96

**Corrugated Square****Youngs**

	28 Ga.	26 Ga.	
2 inch.....	\$11.40	\$12.16	.....
3 inch.....	14.25	15.20	12.00
4 inch.....	19.95	21.28	13.50
5 inch.....	34.20	36.48	.....
6 inch.....			

**Badger Cutoffs made of Galvanized Toncan Metal**  
**Plain and Corrugated Round Corrugated Square**

28 Ga. 26 Ga.  
 15-5% 10-5%

28 Ga. 26 Ga.  
 15-5% 10%-5

Made of Pure Copper.....Write for prices.

**STYLE A GALV. CONDUCTOR REDUCERS**

28 Ga.

26 Ga.

For 2" Pipe.....\$2.70 \$3.24 per Dozen

For 3" Pipe.....3.60 4.32 per Dozen

For 4" Pipe.....4.50 5.40 per Dozen

Made of Galvanized Toncan Metal.....35%

Made of Pure Copper.....Write for prices

**9 CONDUCTOR PIPE HOOKS AND HANGERS****Net Prices per 100****Direct Drive—Round or Square**

Size	2 In.	2½ In.	3 In.	4 In.	5 In.	6 In.
Wood .....	\$2.40	\$3.20	\$4.00	\$5.60	\$8.00	\$9.60
Brick.....	2.80	3.60	4.40	6.80	9.60	12.00

**Never-Slip—Round Only**

Wood .....	\$3.00	\$4.00	\$5.00	\$7.00	\$11.00	\$18.00
Brick.....	4.00	4.50	6.00	10.00	17.00	20.00

**Corrugated Hinged**

Wood .....	\$9.90	....	\$11.70	\$18.00	\$21.60	\$28.80
Brick.....	9.90	....	12.60	18.00	22.50	30.60

**Perfection Wire**

Wood or						
Brick.....	\$2.00	\$2.25	\$2.50	\$3.00	\$3.50	\$4.00

**Mal. Half Round or Square****Net Prices per Dozen**

Wood or						
Brick.....	\$1.20	\$1.30	\$1.50	\$2.25	\$2.40	\$3.50

**FLASHING HOOKS****Net Prices per 100**

Size	1½ In.	2½ In.	3½ In.	5½ In.
Tinned.....	\$ .99	\$1.62	\$2.43	\$5.40

**10 GALVANIZED STEEL CONDUCTOR HEADS**

F. O. B. La Crosse, Wis.

**Net Prices Each**

	3Inch	4 Inch	5 Inch	6 Inch
Style F....	\$ 5.00	\$ 5.25	\$ 6.50	\$ 7.00
Style G....	7.50	7.75	8.00	9.00

**GALVANIZED TONCAN IRON CONDUCTOR HEADS**

	3 Inch	4 Inch	5 Inch	6 Inch
Style F....	\$ 6.00	\$ 6.25	\$ 7.50	\$ 8.50
Style G....	8.00	8.50	9.50	10.50

**COPPER CONDUCTOR HEADS**

	3 Inch	4 Inch	5 Inch	6 Inch
Style F....	\$ 8.00	\$ 8.50	\$ 9.50	\$10.00
Style G....	10.00	10.50	11.00	12.00

When ordering specify size and whether for round or square pipe.

Crating charged extra at cost.

Actual Freight allowed on Cutoffs, Reducers, Hooks and Hangers when shipped with Pipe and Trough as outlined on inside front cover.



## Net Prices Per 100

## Style A

	Lots of Less than 100		Lots of 100	
	Copper	Zinc	Copper	Zinc
3 inch.....	\$22.00	\$13.75	\$20.00	\$12.50
4 inch.....	24.75	14.85	22.50	13.50
Styles B or C				
3 inch.....	24.75	17.60	22.50	16.00
4 inch.....	27.50	19.25	25.00	17.50

## CONDUCTOR PIPE STRAINERS

## Net Prices per Dozen

	2 In.	3 In.	4 In.	5 In.	6 In.
Round ...	\$ .56	\$ .79	\$1.39	\$1.91	\$2.25
Square ...	1.69	2.18	3.60	4.95	....

Copper Strainers—Write for prices.

## BADGER BUILDING CORNERS

## Net Price per 1000

No. 4—3½ inch long.....	\$ 9.60
No. 6—4½ inch long.....	10.40
No. 8—5½ inch long.....	11.20
No. 14—for Drop Siding—5 inch long.....	12.80

## BUNGALOW CORNERS

No. 10—8 inch long.....	\$16.00
No. 12—10 inch long.....	17.80
No. 10 and 12 made with ½" and ¾" base—specify size.	
\$1.00 per 1000 extra less than box lots.	

## \*BADGER ROOF AND BOX GUTTERS

## Net Prices Per 100 Linear Feet

Style E	5"	6"	7"	8"	
28 Ga.....	\$ 7.25	\$ 8.75	\$10.50	\$15.00	
26 Ga.....	9.00	10.75	12.50	16.25	
Mitres No. 28 Ga. Ea....	.73	.88	1.05	1.50	
Mitres No. 26 Ga. Ea....	.90	1.08	1.25	1.63	
Style F	4"	5"	6"	7"	8"
28 Ga.....	\$ 7.25	\$ 9.50	\$10.50	\$12.00	\$15.00
26 Ga.....	9.00	11.50	12.50	14.50	16.25
Mitres					
No. 28 Ga. Ea.	.73	.95	1.05	1.20	1.50
No. 26 Ga. Ea.	.90	1.15	1.25	1.45	1.63
Style G	3½"	4"	5"	6"	8"
28 Ga.....	\$ 5.00	\$7.25	\$ 8.75	\$10.50	\$15.00
26 Ga.....	6.00	9.00	10.75	12.50	16.25
Mitres					
No. 28 Ga. Ea.	.50	.73	.88	1.05	1.50
No. 26 Ga. Ea.	.60	.90	1.08	1.25	1.63
Style I	4"	5"	6"	7"	
28 Ga.....	\$ 6.25	\$ 8.75	\$10.50	\$12.00	
26 Ga.....	7.75	10.75	12.50	14.50	
Mitres No. 28 Ga. Ea....	.63	.88	1.05	1.20	
Mitres No. 26 Ga. Ea....	.78	1.08	1.25	1.45	
Above Gutters made of No. 24 Gauge—Write for prices.					

Any of above Gutters can be furnished with any desired amount of extra material added to regular back for roof lap at proportionate additional cost.

## Quantity Extra On Above Gutters

Extra for less than 100 feet.....	3c per foot
Extra for 100 to 250 feet.....	2½c per foot

Actual Freight only allowed on lots of 500 feet or more, as outlined on inside front cover—Strainers when shipped with Pipe and Trough.

**\*BADGER ROOF AND BOX GUTTERS**  
**Net Prices per 100 Linear Feet**

12	<b>Style J</b>	3½"	4"	5"	6"	7"
	28 Ga.....	\$ 5.00	\$ 7.25	\$ 9.50	\$10.50	\$12.00
	26 Ga.....	6.00	9.00	11.50	12.50	14.50
	<b>Mitres</b>					
	No. 28 Ga. Ea.	.50	.73	.95	1.05	1.20
	No. 26 Ga. Ea.	.60	.78	1.15	1.25	1.45
	<b>Style O</b>	3"	3½"	4"	5"	6"
	28 Ga.....	\$ 5.00	\$ 6.25	\$ 7.25	\$ 9.50	\$10.50
	26 Ga.....	6.00	7.75	9.00	11.50	12.50
	<b>Mitres</b>					
	No. 28 Ga. Ea.	.50	.63	.73	.95	1.05
	No. 26 Ga. Ea.	.60	.78	.90	1.15	1.25
13	<b>Style A</b>	12"	14"	20"	24"	
	28 Ga.....	\$ 6.25	\$8.00	\$12.00	\$16.25	
	26 Ga.....	7.75	10.00	14.50	17.50	
	<b>Mitres No. 28 Ga. Each..</b>	.63	.80	1.20	1.63	
	<b>Mitres No. 26 Ga. Each..</b>	.78	1.00	1.45	1.75	
	<b>Style B</b>	15"	20"	24"		
	28 Ga.....	\$ 8.75	\$12.00	\$16.25		
	26 Ga.....	10.75	14.50	17.50		
	<b>Mitres No. 28 Ga. Each.....</b>	.88	1.20	1.63		
	<b>Mitres No. 26 Ga. Each.....</b>	1.08	1.45	1.75		

Above Gutters made of No. 24 Gauge—Write for prices.

Any of above Gutters can be furnished with any desired amount of extra material added to regular back for roof lap at proportionate additional cost.

**Quantity Extra On Above Gutters**

Extra for less than 100 feet.....3c per foot  
Extra for 100 to 250 feet.....2½c per foot

\*Any Gutters listed on pages 12 and 13

Made of Galvanized Toncan Metal 67%—Mitres Net List

Made of Pure Copper.....Write for prices

**GUTTER ENDS AND OUTLETS**

**Net Prices Each All Sizes**

	Gutter End	Square Outlet	Round Outlet
28 Gauge.....	\$ .15	\$ .15	\$ .15
26 Gauge.....	.15	.15	.15

Made of Galvanized Toncan Metal.....20c Each

Made of Pure Copper.....Write for prices

**ROOF AND BOX GUTTER HANGERS**

10 inch, each net.....	\$ .05
12 inch, each net.....	.05½
14 inch, each net.....	.06
16 inch, each net.....	.06½

**GUTTER SPIKES**

¾x7 inch, each, net.....	\$ .01
¾x8 inch, each, net.....	.01½

**FERRULES**

Galvanized Steel, each, net.....	.01½
Galvanized Toncan, each, net.....	.01¾

**STYLE B GUTTER BRACKETS**

No. 1—Small size, for 15" Gutter.....	\$0.60 Doz.
No. 2—Large size, for 20" Gutter.....	1.10 Doz.

Actual Freight allowed on lots of 500 feet or more, as outlined on inside front cover.



**BADGER DOUBLE BOX GUTTERS**

Net Prices per 100 Linear Feet

14	<b>Style M</b>	3½"	4½"	6"
	No. 28 Ga.....	\$18.46	\$22.72	\$29.82
	No. 26 Ga.....	20.59	25.56	35.50
	Mitres No. 28 Ga. Each...	1.75	2.10	2.65
	Mitres No. 26 Ga. Each...	1.85	2.30	2.90
	<b>Style N</b>	3½"	4½"	6"
	No. 28 Ga.....	\$17.04	\$19.83	\$25.56
	No. 26 Ga.....	19.17	22.72	29.11
	Mitres No. 28 Ga. Each...	1.60	1.85	2.35
	Mitres No. 26 Ga. Each...	1.70	2.05	2.75

**STYLE M AND N GUTTER ENDS AND OUTLETS**

Net Prices Each All Sizes

	Gutter End	Square Outlet	Round Outlet
28 Ga.	\$0.15	\$0.15	\$0.15
26 Ga.	.15	.15	.15
Extra for less than 100 feet.....	3c per foot		
Extra for 100 to 250 feet.....	2½c per foot		
Style M and N Gutters made of Galvanized Toncan Metal 10%, Mitres 33½%, Ends and Outlets 20c Each.			
Made of Pure Copper.....Write for prices			

**TUBING AND ELBOWS**

14	1"	1 1/4"	1 1/2"	
	Tubing.....	\$6.00	\$7.20	\$7.80 per 100 ft.
	Elbows.....	.12	.14	.14 each
	F. O. B. La Crosse			

**\*BADGER STYLE E GALVANIZED ROOF EDGE**  
Net Price per 100 Linear Feet

8" Girt.....	\$1.80
5" Girt.....	2.40

**\*BADGER GALVANIZED EAVES DRIP**

Style A—3" Girt.....	\$1.50
Style C—5" Girt.....	2.40

A charge of 10c per 100 ft. net extra in less than 250 ft. lots on Roof Edge and Eaves Drip.

**\*BADGER ZINC SIDING MOULDINGS**

Net prices per 100 linear feet

No. 1—Outside Corner.....	\$6.00
No. 2—Inside Corner.....	4.00
No. 3—Trim Moulding.....	2.50
Less than 500 ft. lots—crating charge of 50c is made.	

**GALVANIZED ROOF CAPS**

Less than 50 lbs. per lb.....	\$0.08
50 Lbs. or more, per lb.....	.07½

**\*BADGER BARN BATTEN STRIPS**

Stock Lengths 6, 7, 8, 9, 10 and 12 foot.

Style V, per 1000 linear feet.....	\$11.00
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**\*BADGER HIP SHINGLES**

Packed 250 per box; Net prices per 1000

Size	Painted Tin	Galvan-ized
4x 7 inch for wood.....	\$15.10	\$16.95
4x 9 inch for wood.....	19.75	21.70
5x12 inch for slate.....	....	42.35

**\*FLAT SHINGLES**

Net Prices per 1000

Size	Painted Tin	Galvan-ized
4x 5 inch.....	\$ 6.60	\$ 7.70
5x 7 inch.....	9.90	11.00
7x10 inch.....	22.00	23.10
Tin Shingles, Not Painted 75c per 1000 less.		

Actual Freight allowance on above in quantities as outlined on inside front cover.

Reduce Ridge  
Roll and Cap  
Approximately 7%

**\*GALVANIZED PLAIN RIDGE ROLL AND V  
ANGLE RIDGE CAP**

Roll		Net Prices per 100 Linear Feet	
Girt		29 Gauge	28 Gauge
		Bldd.	Bldd.
1 1/4 inch....	7 inch.....	\$3.15	\$3.36
1 1/2 inch....	8 inch.....	3.57	3.78
2 inch....	10 inch.....	3.99	4.20
2 1/2 inch....	12 inch.....	5.04	5.25
3 inch....	14 inch.....	6.30	6.72

No. 26 and 24 Gauge made of Galvanized Steel—Write for prices.

**\*GALVANIZED TRIANGULAR RIDGING**  
Net Prices per 100 Linear Feet—Bundled

	No. 29 Gauge	No. 28 Gauge
8 inch girt.....	\$3.91	\$4.14
10 inch girt.....	4.37	4.60
12 inch girt.....	5.52	5.75

No. 26 and 24 Gauge made of Galvanized Steel—Write for prices.

Plain Ridge Roll and V Angle Ridge Cap made from Galvanized Toncan Metal—Bundled 72%;

Triangular Ridging made from Galvanized Toncan Metal, Bundled 70%.

Plain Ridge Roll, V Angle Ridge Cap and Triangular Ridging made from Pure Copper—Write for prices.

**No. 5 and 7 GLOBE FINIALS FOR PLAIN  
RIDGE ROLL**

1 1/4" and 1 1/2" Roll.....	\$2.20 per dozen
2" Roll.....	2.75 per dozen
2 1/2" Roll.....	3.30 per dozen
No. 915 Gable Finial.....	3.30 per dozen

**17 \*GALVANIZED CONTINUOUS HIP SHINGLES**  
Net Prices per 100 Linear Feet Bundled

	29 Ga.	28 Ga.
Style R 5 inch, 5 foot.....	\$2.65	\$2.90
Style R 5 inch, 10 foot.....	2.65	2.90
If shipped crated—15c per 100 foot extra.		
Style R 10 inch, 4 foot (Crated)...	5.45	5.95
5 inch starters.....	.03 1/2 net each	
10 inch starters.....	.07 net each	
Less than 250 ft. lots 10% extra.		

**\*GALVANIZED CONT. ORNAMENTAL RIDGE**

Bundled 250 Feet—Net Prices per 100 Linear Feet

	29 Ga.	28 Ga.
8 inch.....	\$4.20	\$4.60
No. 9 Gable Finial.....	.39 net each	
No. 11 Hip Finial.....	.39 net each	
Less than 250 ft. lots 10% extra.		

**GALV. ORNAMENTAL RIDGE AND HIP TILE**  
Galvanized After Formed

No. 922 Ridge and Hip Tile.....	\$ .08 net each
No. 922-A Starters.....	.16 net each
No. 923 Hip Finials.....	1.02 net each
No. 924 Gable Finial.....	.96 net each
Above made from Galvanized Toncan Metal—Write for prices.	

Reduce Roll  
Valley  
Approximately 7%

**\*GALVANIZED ROLL VALLEY**  
Net Prices per 100 Linear Feet

Size	29 Ga.	28 Ga.	Size	29 Ga.	28 Ga.
4 in.	\$1.89	\$2.10	16 in.	\$6.09	\$6.30
6 in.	2.73	2.94	18 in.	6.93	7.14
8 in.	3.36	3.57	20 in.	7.56	7.77
10 in.	3.99	4.20	24 in.	9.03	9.24
12 in.	4.83	5.04	26 in.	9.66	9.87
14 in.	5.46	5.67	28 in.	10.29	10.50

Made of No. 26 Ga. Galvanized Steel.....79%  
All Gauges made of Galvanized Toncan Metal...72%  
Made of Pure Copper.....Write for Prices



**\*GALVANIZED FORMED VALLEY**

Net Prices per 100 Linear Feet

18	Size	29 Ga.	28 Ga.	Size	29 Ga.	23 Ga.
	10 in....	\$4.47	\$4.70	20 in....	10.81	\$11.28
	12 in....	5.64	5.88	24 in....	14.10	15.28
	14 in....	7.05	7.52	28 in....	16.45	17.63
	16 in....	8.46	8.93	30 in....	17.63	18.80
	18 in....	9.40	9.87			

Formed Valley less than 250 ft. lots 10% extra.

Made of No. 26 Gauge Galvanized Steel.....76½%

All Gauges made from Galv. Toncan Metal....67%

Made of Pure Copper.....Write for Prices

**\*TIN ROLL VALLEY**

Double Cross Locked—Not Soldered

Net Prices per 100 Linear Feet

	10 inch	14 inch	20 inch	28 inch
IC 8 Lb.....	\$ 4.10	\$5.80	\$ 7.75	\$11.25
IC 15 Lb.....	4.60	6.45	8.75	12.65
IC 20 Lb.....	4.85	6.85	9.25	13.40
IC 25 Lb.....	5.10	7.20	9.75	14.10
IC 40 Lb.....	5.95	8.40	11.45	16.55

Extras:

Painting 1 side...	\$ .10	\$ .15	\$ .20	\$ .25
Painting 2 sides...	.25	.40	.50	.65
Soldering.....	.40	.60	.75	1.00

**\*TIN FLASHING IN ROLLS**

Net Prices per 100 Linear Feet

	4 In.	5 In.	6 In.	7 In.	8 In.
Not Ptd.	\$1.65	\$2.05	\$2.50	\$2.80	\$3.20
Painted ..	1.70	2.10	2.55	2.90	3.30

**\*FOLLANSBEE FORGE SEAMLESS ROLL  
ROOFING**

50 Ft. Seamless Rolls

Net Prices per 100 Linear Feet

	14 Inch	20 Inch	28 Inch
IC 8 lb. Not Painted.....	\$6.00	\$ 8.00	\$....
IC 8 lb. Painted 2 sides...	6.30	8.30	....
IC 20 lb. Painted 2 sides...	7.40	9.80	....
IC 40 lb. Painted 2 sides...	8.90	12.10	17.50

**BADGER WARRANTED TERNE PLATES**

Our Terne Plates are made from copper bearing base sheets. Each plate full weight, uniform and as represented.

112 Sheets—20x28 inches

F. O. B. La Crosse, Wis.	Shipping Weight	Net Per Box
"Sexauer's IC 40-lb.....	258	\$25.75
"Sexauer's" IX 40-lb.....	314	28.50
"American" IC 25-lb.....	243	21.50
"Badger" IC 20-lb.....	238	20.25
"Clarmax" IC 15-lb.....	233	19.00
"Alloy" IC 8-lb.....	226	16.60
"Follansbee Forge" IC 40-lb.....	262	25.75

Our 40-lb., 25-lb., 20-lb. and 15-lb. Plates all have the name and coating stamped on each sheet. The Alloy has the name only stenciled on boxes.

Write for special prices when in the market for 5 boxes or more.

Actual Freight allowed on Valley on lots of 500 feet or more, as outlined on inside front cover.

**"YUCCA" BRIGHT COKE FURNACE TIN**

F. O. B. La Crosse, Wis.

Shipping

Net

Weight

Per Box

IC 20x28 in.—112 Sheets.....	226 lbs.	\$13.90
IC 20x29½ in.—112 sheets.....	238 lbs.	14.65
IC 20x32½ in.—112 sheets.....	262 lbs.	16.20
IX 20x32½ in.—56 sheets.....	166 lbs.	9.50
IX 20x39 in.—56 sheets.....	199 lbs.	11.65
IC 24x26 in.—112 Sheets.....	252 lbs.	16.15
IC 24x29½ in.—112 sheets.....	286 lbs.	17.95
IC 24x32½ in.—56 sheets.....	157 lbs.	10.10
IX 24x29½ in.—56 sheets.....	180 lbs.	10.60
IX 24x32½ in.—56 sheets.....	198 lbs.	11.70
IX 24x39 in.—56 sheets.....	240 lbs.	14.10
IX 24x45 in.—56 sheets.....	270 lbs.	16.60

Write for special prices when in the market for 5 boxes or more.

**3A BRIGHT CHARCOAL TIN**

F. O. B. La Crosse, Wis.

Shipping

Net

Weight

Per Box

IX 20x28 in.—56 sheets....	151 lbs.	\$13.00
1XX 20x28 in.—56 sheets....	171 lbs.	14.65
IXXX 20x28 in.—56 sheets....	191 lbs.	16.15
IXXXX 20x28 in.—56 sheets....	211 lbs.	17.65

**"BADGER" FIRE DOOR TIN—20 Lb.**

Underwriters Guarantee and Specifications

F. O. B. La Crosse, Wis.

Shipping

Net

Weight

Per Box

IC 14x20 in.—112 sheets.....	120 lbs.	\$10.70
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**NAILS—F. O. B. Chicago**

Bright or Cement Coated—\$2.60 Base per 100 lbs.

Galvanized Nails \$2.00 Per Keg Extra.

For Stock and extras see catalog.—Freight costs, nextpage.

23

**BARBED WIRE—F. O. B. Chicago**

2 Point Galvanized Cattle, net per 80 Rod Reel \$2.74

2 Point Galvanized Hog, net per 80 Rod Reel 2.93

**STAPLES—F. O. B. Chicago**

Polished No. 9 Gauge (all sizes) ...\$3.40 per 100 lbs.

Galvanized No. 9 Ga. (all sizes) ....\$3.90 per 100 lbs.

Galvanized Poultry.....\$5.35 per 100 lbs.

Galvanized Lath.....\$5.35 per 100 lbs.

Extras for less than full kegs Nails and Staples:

Less 25 lbs.....\$1.00 extra

25 to 50 lbs......75 extra

50 to 100 lbs......50 extra

23

**WOVEN WIRE FENCE—F. O. B. Chicago**

Spec. No. 12½—No. 10 Top & Bottom, No. 12½ Filler

Style Size Rolls 6" Stays 12" Stays

No.

726 20 Rod \$27.01 \$20.84 per 100 Rods

832 20 Rod 31.11 23.57 per 100 Rods

939 20 Rod 35.56 26.29 per 100 Rods

**CHICK PROOF FENCE—F. O. B. Chicago**

Spec. No. 15½—No. 12½ Top & Bottom, No. 15½ Filler

2148 10 Rod \$40.27 ..... per 100 Rods

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**GALV. PLAIN SMOOTH WIRE—F. O. B. Chicago**

Net Prices per 100 pounds

	100 lb. Full Bds.	50 to 100 lbs.	25 to 50 lbs.	Less than 25 lbs.
1/8".....	\$3.50	\$4.10	\$4.50	\$5.00
1/4".....	3.75	4.35	4.75	5.25
No. 8.....	3.50	4.10	4.50	5.00
No. 9.....	3.50	4.10	4.50	5.00
No. 10.....	3.55	4.15	4.55	5.05
No. 12.....	3.70	4.30	4.70	5.20
No. 14.....	4.05	4.65	5.05	5.55
No. 15.....	4.35	4.95	5.35	5.85



**Black Annealed Wire—F. O. B. Chicago**

	100 lb.	50 to	25 to	Less than
	Full Bdls.	100 lbs.	50 lbs.	25 lbs.
No. 9.....	\$3.10	\$3.70	\$4.10	\$4.60
No. 12.....	3.25	3.85	4.25	4.75
No. 14.....	3.45	4.05	4.45	4.95

**COPPERED MARKET WIRE—F. O. B. La Crosse**

**Net Prices per 100 Pounds**

No. 10.....	\$5.85	\$6.45	\$6.85	\$7.35
No. 12.....	6.00	6.60	7.00	7.50
No. 14.....	6.35	6.95	7.35	7.85

**STOVE PIPE WIRE—F. O. B. La Crosse**

**Black Galvanized**

No. 18.....	\$0.84	\$1.00	Net per 12 lb. Stone
No. 19.....	.85	1.05	Net per 12 lb. Stone
No. 19—Black packed 12-50 ft. coils per box, \$.45 net.			

**BRASS WIRE STRAINER CLOTH**

**F. O. B. La Crosse**

**Net Price per Roll**

Mesh	40	50	60	70	80
Per Roll..	\$ .75	\$ .88	\$ .98	\$1.35	\$1.75

**Freight per Keg on Nails and Staples and Reels of Barbed Wire.**

To determine your freight cost per keg on Nails and Staples or 80 Rod 2 Point Heavy Barbed Wire obtain freight rate per 100 pounds from Chicago. Locate this rate in first column of table shown below. Figures at right of this rate are your freight costs. Add these to the keg price of Nails or Staples or the 80 Rod Reel price of Barbed Wire, and this will give you your cost delivered to your Railroad Station.

Where Frgt. Rate is Per 100 lbs.	Nails and Staples per keg	Heavy Two Point Barbed Wire Cat-  Hog tle	Where Frgt. Rate is Per 100 lbs.	Nails and Staples per keg	Heavy Two Point Barbed Wire Cat-  Hog tle
.20	.214	.160 .171	.45	.481	.359 .383
.21	.224	.168 .179	.46	.492	.367 .392
.22	.235	.176 .188	.47	.502	.375 .400
.23	.246	.184 .196	.48	.513	.383 .409
.24	.256	.192 .205	.49	.524	.391 .417
.25	.267	.200 .213	.50	.535	.399 .426
.26	.278	.208 .222	.51	.545	.407 .435
.27	.288	.216 .230	.52	.556	.415 .443
.28	.299	.224 .239	.53	.567	.423 .452
.29	.310	.232 .247	.54	.577	.431 .460
.30	.321	.240 .256	.55	.588	.439 .469
.31	.331	.248 .264	.56	.599	.447 .477
.32	.342	.256 .273	.57	.609	.455 .486
.33	.353	.264 .281	.58	.620	.463 .494
.34	.363	.271 .290	.59	.631	.471 .503
.35	.374	.279 .298	.60	.642	.479 .511
.36	.385	.287 .307	.61	.652	.487 .520
.37	.395	.295 .315	.62	.663	.495 .528
.38	.406	.303 .324	.63	.674	.503 .537
.39	.417	.311 .332	.64	.684	.511 .545
.40	.428	.319 .341	.65	.695	.519 .554
.41	.438	.327 .349	.66	.706	.527 .562
.42	.449	.335 .358	.67	.716	.534 .571
.43	.460	.343 .366	.68	.727	.542 .579
.44	.470	.351 .375	.69	.738	.550 .588
			.70	.749	.558 .596

Page	No. 1—Side Roof— $\frac{1}{4}$ Pitch .....	\$3.75 Doz.
24	No. 2—Peak Roof— $\frac{1}{2}$ Pitch .....	3.75 "
	Other Pitches at Extra Cost.	
	No. 3 Caps .....	2.35 "

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**COLD ROLLED SHEET COPPER**

Following sizes in stock for immediate delivery—  
other sizes or weights can also be furnished promptly.

14 Oz. 30" wide x 96" long .....	Market Price
16 oz. 28", 30" and 36" wide x 96" lg. . .	Market Price
16 oz. 24" and 30" wide x 120" long . . .	Market Price
20 oz. 30" and 36" wide x 96" long . . .	Market Price

**COLLED ROLLED COPPER—Tinned One Side**

16 oz. 30" and 36" wide x 96" long . . .	Market Price
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**HOT ROLLED SOFT COPPER**

16 oz. 30" and 36" wide x 96" long . . .	Market Price
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**SHEET ZINC—F. O. B. La Crosse**

Net Price per 100 Pounds—Crating Extra

No. 9 Gauge 30" x 50" }	Market Price
No. 9 Gauge 30" x 96" }	
No. 9 Gauge 36" x 84" }	
No. 9 Gauge 36" x 96" }	
No. 9 Gauge 48" x 96" }	

**NICKEL ZINC—F. O. B. La Crosse**

Net Price per 100 Pounds—Crating Extra

No. 9 Gauge 30" x 96" }	Market Price
No. 9 Gauge 32" x 54" }	
No. 9 Gauge 36" x 84" }	
No. 9 Gauge 36" x 96" }	

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**ARMCO 18-8 STAINLESS STEEL**

Polished One Side—No. 4 Finish

Net Prices Per Pound in Full Sheets

Sizes in Stock	Wt. Sht.	F. O. B. La Crosse
No. 26 36x120 .....	23.6 .....	\$ .81 $\frac{3}{4}$
Cut Sizes \$1.00 per square foot net.		
For Quantities Over 50 Lbs. .... Write for Prices		

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**LEAD WASHERS—F.O.B. La Crosse.. \$ .17 per lb.**

**Galvanized Large Head Barbed Roofing**

Nails—(See page 9 for prices)

**ZINCLAD SPIRAL ROOFING NAILS**

Net Price per 100 Pounds—F. O. B. La Crosse

1"	1 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "
\$12.80	\$12.70	\$12.65	\$12.60

**DENISTON LEAD SEAL NAILS**

Net Price per Keg—F. O. B. La Crosse

	1 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	2"	2 $\frac{1}{2}$ "
Smooth Shank—Bright . . . .	9.50	9.50	9.50	9.50
Smooth Shank—Galv. . . . .	11.00	11.00	11.00	11.00
Screw Shank—Bright. . . . .	12.00	12.00	12.00	12.00
Screw Shank—Galvanized. . .	13.50	13.50	13.50	13.50

**ANCHOR SHANK LEAD HEAD NAILS**

	1 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	2"	2 $\frac{1}{2}$ "
Bright . . . . .	\$11.00	\$11.00	\$11.00	\$11.00
Galvanized . . . .	12.00	12.00	12.00	12.00

**ZINCLAD CORRUGATED ROOFING NAILS**

Net Price per 100 Pounds—F. O. B. La Crosse

1 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	2"	2 $\frac{1}{2}$ "
\$12.00	\$12.00	\$12.00	\$11.50

On quantities of less than 100 pounds Lead Head  
and Zinclad Nails 1c per pound extra.



**BADGER GALVANIZED STEEL SHEETS**

F. O. B. Chicago

All Sheets Shipped from La Crosse, Wis

Net Prices per 100 Pounds

	Under 1 Bdle.	1 Bdle. to 499 lbs.	500 lbs. to 1499 lbs.	1500 lbs. to 3499 lbs.
No. 30 Ga...	\$6.50	\$5.50	\$5.15	\$4.95
No. 29 Ga...	6.25	5.25	4.90	4.70
No. 28 Ga...	6.00	5.00	4.65	4.45
No. 27 Ga...	5.85	4.85	4.50	4.30
No. 26 Ga...	5.75	4.75	4.40	4.20
No. 24 Ga...	5.50	4.50	4.15	3.95
No. 22 Ga...	5.45	4.45	4.10	3.90
No. 20 Ga...	5.40	4.40	4.05	3.85
No. 18 Ga...	5.35	4.35	4.00	3.80
No. 16 Ga...	5.25	4.25	3.90	3.70

**GALVANIZED TONCAN IRON**

Net Prices per 100 Pounds—F. O. B. Chicago

28 gauge.....	\$6.25	20 gauge.....	\$5.65
26 gauge.....	6.00	18 gauge.....	5.60
24 gauge.....	5.75	16 gauge.....	5.50
22 gauge.....	5.70		
400 Lbs. or more Toncan Iron 50c less per 100 Lbs.			

**GALVANNEALED STEEL SHEETS**

For Furnace Pipe and Ellbows

Net Prices per 100 Pounds—F. O. B. Chicago

28 gauge.....	\$7.25	24 gauge.....	\$6.75
26 gauge.....	7.00	22 gauge.....	6.70
400 Lbs. or More, Galvannealed, 50c less per 100 Lbs.			

**EXTRAS**

For Copper Bearing Sheets....add \$0.25 per 100 lbs.

 $\frac{3}{16}$ " Crimped Sheets.....add .50 per 100 lbs.

11 and 12 ft. sheets.....add .10 per 100 lbs.

Over 32 to 36" Wide Sheets—Galvanized

27 Gauge.....add \$0.05 per 100 lbs.

28, 29 and 30 Gauge.....add .20 per 100 lbs.

38" Wide x 128" Long—Galvanized:

24 Gauge.....add .35 per 100 lbs.

42" Wide Sheets—Galvanized:

20 Gauge.....add .15 per 100 lbs.

22 Gauge.....add .35 per 100 lbs.

24 Gauge.....add .45 per 100 lbs.

48" Wide Sheets—Galvanized:

18 Gauge.....add .25 per 100 lbs.

20 Gauge.....add .40 per 100 lbs.

24 Gauge.....add .75 per 100 lbs.

26 Gauge.....add 1.00 per 100 lbs.

Write for Prices on Larger Quantities and Carloads.

**BADGER HOT ROLLED BLACK SHEETS**

F. O. B. Chicago

	Under 100 lbs.	100 lbs. to 399 lbs.	400 lbs. to 1999 lbs.	2000 lbs. to 9999 lbs.
No. 30 Ga...	\$6.15	\$5.15	\$4.65	\$4.45
No. 28 Ga...	5.85	4.85	4.35	4.15
No. 26 Ga...	5.75	4.75	4.25	4.05
No. 24 Ga...	5.65	4.65	4.15	3.95
No. 22 Ga...	5.60	4.60	4.10	3.90
No. 20 Ga...	5.55	4.55	4.05	3.85
No. 18 Ga...	5.45	4.45	3.95	3.75
No. 16 Ga...	5.20	4.20	3.70	3.50
No. 14 Ga...	4.95	3.95	3.45	3.25

**EXTRAS**

36" Wide—28 Ga.—Black....add 20c per 100 lbs.

**BADGER STOVE PIPE BLUE SHEETS**

No. 28 Ga...	\$6.05	\$5.05	\$4.55	\$4.35
No. 27 Ga...	6.00	5.00	4.50	4.30
No. 26 Ga...	5.95	4.95	4.45	4.25
Stove Pipe Sheets Oiled at 10c per 100 extra.				

# ROOFING AND SIDING—NET PRICE PER SQUARE—F. O. B. CHICAGO, ILL.

For Freight cost per square refer to table on page 14

## Shipped from La Crosse

### 5 to 10 foot sheets

Catalog  
Page

	No. 29 Gauge Galv.		No. 28 Gauge Galv.		No. 26 Gauge Galv.		No. 28 Gauge Painted	
	Less than 50 squares	50 squares and over	Less than 50 squares	50 squares and over	Less than 50 squares	50 squares and over	Less than 50 squares	50 squares and over
29 Tyl-lyke Roofing.....	\$3.54	\$3.46	\$3.80	\$3.71	\$4.01	\$3.91	....	....
36 2½ inch Corrugated Sheets—26 inch wide.....	3.59	3.51	3.65	3.56	4.06	3.96	....	....
37 1½ inch Corrugated Sheets—26 inch wide.....	3.79	3.76	3.70	3.61	....	....	....	....
38 ¾ inch Corrugated Sheets—26 inch wide.....	3.84	3.81	3.95	3.86	4.36	4.26	....	....
38 2½ inch Corrugated Elevator Sheets.....	3.89	3.81	4.00	3.91	4.41	4.31	....	....
39 No. 970—1½ inch Corrugated Single Curve.....	3.99	3.91	4.15	4.06	4.56	4.46	....	....
39 No. 971—1½ inch Corrugated Double Curve.....	4.39	4.31	4.55	4.46	5.06	4.96	....	....
39 No. 972—1½ inch Corrugated Single Curve for Beams.....	Write for	Prices						
40 2½ inch Corrugated V Crimp—No Sticks.....	4.04	3.96	4.15	4.06	4.66	4.56	....	....
40 2½ inch Corrugated Pressed Stand Seam—No Cleats.....	4.04	3.96	4.15	4.06	4.61	4.51	....	....
41 2 V Crimp—24½ inches wide—No Sticks.....	3.59	3.51	3.70	3.61	4.06	3.96	....	....
41 3 V Crimp—24 inches wide—No Sticks.....	3.69	3.61	3.85	3.71	4.16	4.06	....	....
42 1 inch Pressed Stand Seam—No Cleats.....	3.74	3.66	3.85	3.76	4.21	4.11	....	....
42 1½ inch Pressed Stand Seam—No Cleats.....	3.89	3.81	4.00	3.91	4.46	4.36	....	....
43 Noiseless Pressed Stand Seam—No Cleats.....	4.64	4.56	4.75	4.66	5.41	5.31	....	....
43 Superior Pressed Stand Seam—Cont. Cleat.....	4.09	4.01	4.20	4.11	4.66	4.56	....	....
44 Self Cap Roll Roofing—No Cleats.....	3.79	3.71	3.90	3.81	4.26	4.16	....	....
44 Roll and Cap Roofing—Caps and Cleats.....	4.14	4.06	4.25	4.16	4.66	4.56	....	....
45 Beaded Pressed S S—No Cleats.....	3.74	3.66	3.85	3.76	4.21	4.11	....	....
45 Beaded Ceiling—27 inches wide.....	3.74	3.66	3.85	3.76	4.26	4.16	....	....
47 Weatherboard Siding—4 inch Boards.....	3.89	3.81	4.00	3.91	4.41	4.31	....	....
47 Plain Pressed Brick Siding.....	3.64	3.56	3.75	3.66	4.11	4.01	....	....
48 Rock Face Brick Siding.....	3.74	3.66	3.85	3.76	....	....	2.54	2.64
48 Rock Face Stone Siding—No. 1.....	3.74	3.66	3.85	3.76	....	....	2.64	2.71
48 Rock Face Stone Siding—No. 2.....	3.74	3.66	3.85	3.76	....	....	2.71	2.84
EXTRAS—PER SQUARE								
11 and 12 foot lengths.....	.10	.10	.10	.10	.10	.10	.10	.10
Forming Roofing Sheets shorter than 60 inch to 80 inch.....	.20	.20	.20	.20	.25	.25	.20	.20
Forming Roofing Sheets shorter than 80 inch to 20 inch.....	.25	.25	.30	.30	.35	.35	.30	.30
Sticks for Two V-Crimp Roofing.....	....	....	....	....	....	....	(50 lin. ft. per sq.) add	\$0.15 per sq.
Side Sticks for Three V-Crimp Roofing.....	....	....	....	....	....	....	(50 lin. ft. per sq.) add	.15 per sq.
Side and Center Sticks for Three V-Crimp Roofing.....	....	....	....	....	....	....	(100 lin. ft. per sq.) add	.30 per sq.
Cleats for Pressed Standing Seam and Roll Roofing.....	....	....	....	....	....	....	.....add	.10 per sq.
All Badger Roofings also made of Galvanized Toncan Iron—1½" Corrugated sheets made of "Seal of Quality" 2 ounce Coated—Write for prices.								



Catalog **\*TYL-LYKE AND CORRUGATED TRIMMINGS**  
 Page **Net Prices per 100 Linear Feet**

29 Tyl-Lyke Ridge Roll.....\$8.50  
 Tyl-Lyke Gambrel Joint..... 5.80

33 29 Ga. 28 Ga.  
 No. 979 Corrg. Ridge Roll .....\$5.03 \$5.20  
 No. 980 Corrg. Ridge Cap ..... 5.40 6.10  
 No. 819 Corrugated Gambrel  
 Roof Joint ..... 5.03 5.20  
 No. 978 Corrugated End  
 Wall Flashings ..... 5.03 5.20  
 No. 977 Corrugated Side  
 Wall Flashings ..... 5.03 5.20

Actual Freight only allowed when ordered in lots of 500 feet or more,  
 as outlined on inside front cover or when shipped with Roofing.

**METAL ROOFING TOOLS**

35 1" and 1½" Double Seamer.....\$15.00 each  
 1", 1½", 1¾" and 2" Flanging Tongs. 5.50 each  
 End Lock Former..... 1.50 each  
 No. 766 Malleable Handle Cap Squeezer 5.50 each  
 No. 767 Malleable Handle Cap Squeezer 6.25 each  
 Emrichs Squeezing Tongs..... 5.50 each

**GALVANIZED ROOF STARTER**

**Net Prices per 100 Linear Feet**

43 Girt 10" 12" 14" 16" 20" 24"  
 29ga. \$4.36 \$5.51 \$ 6.88 \$ 8.26 \$10.55 \$13.76  
 28 ga. 4.59 5.74 7.34 8.72 11.01 14.91  
 26 ga. 5.51 7.11 9.18 10.55 13.31 16.06  
 Made of Galvanized Toncan Iron—Write for prices.

**METAL CORNER BOARD**

47 10" Girt Galvanized Steel per linear ft.....\$0.08  
 Made of Galvanized Toncan Iron—Write for prices.

**Freight per Square on all Forms of Roofing and Siding**

To determine your freight cost per square on all forms of Galvanized and Painted Roofings and Sidings, obtain freight rate per 100 pounds from Chicago. Locate this rate in first column of table shown below. Figures at right of this rate are your freight cost per square. Add this to the square cost of the Roofing or Siding you wish to purchase, and this will give your cost delivered to your Railroad Station.

Where Frgt. Rate is Per 100 lb.	Galv.			Pt.	Where Frgt. Rate is Per 100 lb.	Galv.			Pt.
	29 Ga	28 Ga	26 Ga	28 Ga		29 Ga	28 Ga	26 Ga	28 Ga
.30	.23	.25	.29	.20	.50	.38	.42	.49	.34
.31	.23	.26	.30	.21	.51	.39	.42	.49	.34
.32	.24	.26	.31	.21	.52	.40	.43	.50	.35
.33	.25	.27	.32	.22	.53	.40	.44	.51	.36
.34	.26	.28	.33	.23	.54	.41	.45	.52	.36
.35	.26	.29	.34	.23	.55	.42	.46	.53	.37
.36	.27	.30	.35	.24	.56	.43	.47	.54	.38
.37	.28	.31	.36	.25	.57	.43	.47	.55	.38
.38	.29	.31	.37	.25	.58	.44	.48	.56	.39
.39	.30	.32	.38	.26	.59	.45	.49	.57	.40
.40	.30	.33	.39	.27	.60	.46	.50	.58	.40
.41	.31	.34	.40	.27	.61	.46	.51	.59	.41
.42	.32	.35	.41	.28	.62	.47	.52	.60	.42
.43	.33	.36	.42	.29	.63	.48	.52	.61	.42
.44	.33	.36	.43	.29	.64	.49	.53	.62	.43
.45	.34	.37	.44	.30	.65	.50	.54	.63	.44
.46	.35	.38	.45	.31	.66	.50	.55	.64	.44
.47	.36	.39	.46	.31	.67	.51	.56	.65	.45
.48	.36	.40	.47	.32	.68	.52	.57	.66	.46
.49	.37	.41	.48	.33	.69	.53	.57	.67	.46
					.70	.53	.58	.68	.47

Catalog	Continuous Rock Face Stone.....	10%
Page	Corners and Pilasters.....	10%
49	Window and Door Caps—Submit specifications for prices.	

50	No. 1001 Plate .....	\$3.70 per sq.
	No. 1100 Plate .....	3.80 " "
	No. 1806 Plate .....	3.90 " "
51	No. 2306 Plate .....	3.90 " "
	No. 2301 Plate .....	Discontinued
	No. 2310 Plate .....	3.90 " "
52	No. 1200 Plate .....	3.90 " "
	No. 1201 Plate .....	3.90 " "
	No. 1134 Cornice .....	2.50 per 100'
	No. 1134 Mitres .....	.15 each
	No. 1150 Cornice .....	3.50 per 100'
	No. 1150 Mitres .....	.17½ each
	No. 2432 Cornice .....	5.00 per 100'
	No. 2432 Mitres .....	.30 each
53	No. 1743 Filler .....	4.10 per sq.
	No. 1744 Filler .....	4.10 " "
	Wood Furring Strips.....	\$ .75 per 100 linear ft.
	Cone Head Ceiling Nails.....	\$ .10 per pound

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### COMPLETE CEILING DESIGNS

Submit drawings with measurements and number of design wanted—we will quote net lump sum price.

65	FINIALS.....	Submit specifications for prices.
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### BADGER GALVANIZED STEEL SKYLIGHTS

F. O. B. La Crosse—Crating Charges Included

Any Skylight on this page furnished with  $\frac{3}{16}$ " Plain Ribbed Glass 5% Less.

Size	No. 880 With Wired Glass	No. 881
3x 3ft. ....	\$ 9.20	\$15.80
3x 4 ft. ....	11.40	19.00
3x 5 ft. ....	13.70	21.50
3x 6 ft. ....	16.15	24.40
4x 4 ft. ....	14.00	25.10
4x 5 ft. ....	17.25	27.50
4x 6 ft. ....	19.80	29.00
4x 8 ft. ....	22.20	32.35
5x 9 ft. ....	29.15	40.00
5x10 ft. ....	31.15	45.00
6x 8 ft. ....	31.00	46.55
6x10 ft. ....	37.00	56.85
6x12 ft. ....	42.00	66.95
6x14 ft. ....	49.15	76.85
8x10 ft. ....	46.80	68.80
8x12 ft. ....	56.20	79.45
8x14 ft. ....	65.55	88.50

	No. 884 With Wired Glass	No. 885
3x 3 ft. ....	\$40.65	\$63.45
3x 4 ft. ....	45.50	70.55
3x 5 ft. ....	50.85	77.60
3x 6 ft. ....	56.00	85.00
4x 4 ft. ....	55.20	82.20
4x 5 ft. ....	64.40	95.55
4x 6 ft. ....	73.50	109.65
4x 8 ft. ....	83.15	134.45
5x 9 ft. ....	101.00	153.00
5x10 ft. ....	116.55	168.95
6x 8 ft. ....	110.20	161.95
6x10 ft. ....	128.00	185.00
6x12 ft. ....	143.10	202.10
6x14 ft. ....	158.75	221.85
8x10 ft. ....	149.40	230.00
8x12 ft. ....	168.20	260.00
8x14 ft. ....	185.75	290.00



**BADGER GALVANIZED STEEL SKYLIGHTS**  
**F. O. B. La Crosse—Crating Charges Included**  
Skylights with  $\frac{3}{16}$ " Plain Ribbed Glass 5% Less.

No. 883	With Vent and Damper	Without Vent and Damper
	With Wired Glass	With Wired Glass
Size 3x 3 ft.....	\$18.50	\$15.75
Size 3x 4 ft.....	21.50	18.50
Size 3x 5 ft.....	22.90	19.75
Size 3x 6 ft.....	25.75	22.50
Size 4x 4 ft.....	27.95	23.70
Size 4x 5 ft.....	29.40	25.00
Size 4x 6 ft.....	32.65	28.00
Size 4x 8 ft.....	39.15	34.15
Size 5x 5 ft.....	35.40	30.80
Size 5x 9 ft.....	48.25	42.85
Size 5x10 ft.....	51.70	45.70
Size 6x 6 ft.....	43.70	39.15
Size 6x 8 ft.....	51.00	44.95
Size 6x10 ft.....	58.25	54.10
Size 6x12 ft.....	65.95	59.95
Size 6x14 ft.....	72.80	66.35
Size 7x 7 ft.....	51.75	46.55
Size 8x 8 ft.....	62.30	56.20
Size 8x12 ft.....	82.40	75.80
Size 8x14 ft.....	91.75	84.10
Size 9x 9 ft.....	72.75	66.20
Size 10x10 ft.....	86.55	79.65

67	No. 895	No. 896	No. 897
	With Wired Glass	With Wired Glass	With Wired Glass
3x 3 ft.....	\$ 21.00	\$22.45	\$25.75
3x 4 ft.....	26.40	27.85	31.30
3x 5 ft.....	28.80	31.10	33.50
3x 6 ft.....	32.50	33.95	37.20
4x 4 ft.....	29.20	32.55	34.60
4x 5 ft.....	37.00	40.85	41.85
4x 6 ft.....	44.00	45.90	48.80
4x 8 ft.....	53.25	55.75	59.00
5x 5 ft.....	44.35	46.60	49.10
5x 9 ft.....	62.40	67.70	71.70
5x10 ft.....	78.10	80.35	85.20
6x 6 ft.....	57.00	59.50	62.80
6x 8 ft.....	74.25	75.50	80.10
6x10 ft.....	95.20	91.00	97.00
6x12 ft.....	102.15	107.25	113.70
6x14 ft.....	116.45	120.80	128.00
7x 7 ft.....	79.35	81.90	85.15
8x 8 ft.....	99.25	102.35	106.35
8x12 ft.....	128.60	134.25	142.35
8x14 ft.....	154.45	156.00	165.65
9x 9 ft.....	114.10	118.00	121.25
10x10 ft.....	139.00	142.10	146.25

Prices on any Skylight made of Galvanized Toncan or Pure Copper quoted on application.

68	Galvanized Steel Lintel Cornices.....	25%
	Made of Galvanized Toncan Iron.....	Write for prices.
	Made of Pure Copper.....	Write for prices
69-70	Galvanized Steel Cornices.....	10%
	Made of Galvanized Toncan Iron.....	Write for prices
	Made of Pure Copper.....	Write for prices

All Prices are F. O. B. La Crosse, unless otherwise specified, and are subject to change without notice.

Catalog Page 75 All Cupolas and Ventilators on pages 75 to 85 inc., F. O. B. La Crosse, Wis., with exception of large sizes of Kleenaire Ventilators.

### THE BADGER CUPOLA

Net Price Each—Crating Charges Included

Specify Style of Vane Wanted.

	Vent.	Base	Base	Approx.	Net
No.	Flue	Mould	Roof	Weight	Each
13	13 inches.....	27x27	24x24	90 lbs.	\$18.50
16	16 inches.....	32x32	28x28	100 lbs.	22.00
20	20 inches.....	39x39	35x35	150 lbs.	25.00
24	24 inches.....	46x46	42x42	200 lbs.	28.50
28	28 inches.....	50x50	47x47	225 lbs.	32.00
30	30 inches.....	54x54	52x52	275 lbs.	35.50
36	36 inches.....	63x63	62x62	375 lbs.	50.00
	Lettering Bases.....				50%
	Galvanized Block Letters.....				50%
	Dampers.....				50%

76	No. 100 Series Badger Cupolas (crating included).....	50%
79	Badger Special Ventilators (crating included)....	50%
	Lightning Rod Attachment.....	50%
80	Badger Revolving Ventilators (crating extra on or- ders for less than 2).....	50%
	Style T Hog House Ventilators (crating included).....	50%
81	Kleenaire Ventilators (crating included).....	30%
82	Style JV and H Perfect Ventilators (crating in- cluded).....	50%
	Ventilator Bases (crating included).....	50%
83	Badger Syphon Ventilator (crating included).....	50%
84	Styles K. L. M and O Ventilators (crating extra).....	50%
85	Styles BHS, BHL and BHO Ventilators (crating extra).....	50%
	Smoke Pipe and Elbows.....	Write for prices
	Tobacco Shed Ventilators (crating extra).....	50%

### HOG HOUSE SKYLIGHTS AND WINDOWS

F. O. B. La Crosse, Wisconsin

87	Ventilating Skylights (crating extra on orders for less than 6).....	50%
	Glass (crating extra).....	Wired 40%—Plain 50%
88	Stationary Skylights (crating extra on orders for less than 6).....	50%
	Glass (crating extra).....	Wired 40%—Plain 50%
89	Sliding and Ventilating Windows (crating extra on orders for less than 6).....	50%

### 90 DUO-VENT METAL FRAMES

Net Price per Dozen—F. O. B. La Crosse, Wis.

K4912	K6912-3W	K6912-2W
\$12.60	\$14.35	\$16.80
Packing Unit 6 Frames—Broken packages 35c Net Extra.		

### 91 BASEMENT WINDOWS, STORM SASH AND SCREENS

Net Price Each

No freight allowed on orders for less than six windows, screens or sash.

	Windows		Storm Sash		Screens			
No.	Zone 2	Zone 3	Zone 2	Zone 3	Zone 2 Galv.	Zone 2 Bro.	Zone 3 Galv.	Zone 3 Bro.
501	\$2.45	\$2.50	\$1.35	\$1.40	\$ 1.45	\$1.60	\$1.45	\$1.60
502	2.20	2.25	1.10	1.15	1.30	1.45	1.30	1.45
503	2.60	2.65	1.35	1.35	1.60	1.70	1.60	1.70
504	2.60	2.70	1.35	1.35	1.75	1.85	1.75	1.85

For Zones See Page 19.



## No. 5 SINGLE PITCH SILO ROOF WITH FILLING DOOR

Size and Price List—F. O. B. La Crosse, Wis.

Outside Diam. of Silo	Approximate Shipping Wt.	Net price of roof without dormer
10 feet.....	185 lbs.....	\$16.79
11 feet.....	240 lbs.....	19.33
12 feet.....	245 lbs.....	20.86
13 feet.....	300 lbs.....	22.39
14 feet.....	310 lbs.....	27.98
15 feet.....	380 lbs.....	31.03
16 feet.....	400 lbs.....	34.60
18 feet.....	540 lbs.....	45.79
20 feet.....	700 lbs.....	58.00
Extra Filling Doors, each.....		\$1.71
Crating Extra.		

## SMALL DORMER WINDOW FOR ANY SIZE SINGLE PITCH ROOF—F. O. B. La Crosse, Wis.

No. 6—Without Sash and Glass, each.....\$4.95

No. 6—With Sash and Glass, each..... 7.62

Crating extra.

Above prices do not include wood curb or clamps for Masonry Silos.

It is not practical to furnish large dormer window for Badger Single Pitch Silo Roofs.

Dormers always shipped set up complete—saving time of assembly on job.



When ordering Single Pitch Silo Roofs always state what material silo is constructed of and give outside diameter and thickness of walls.

Instruction sheet for erecting furnished with each Badger Single Pitch Silo Roof.

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## BADGER GAMBREL SILO ROOFS

No. 2 Roof with Filling Door

Size and Price List—F. O. B. La Crosse, Wis.

Outside Diam of Silo	Approximate Shipping Wt.	Net price of roof without dormer
10 feet.....	280 lbs.....	\$26.96
11 feet.....	320 lbs.....	30.78
12 feet.....	390 lbs.....	34.60
13 feet.....	440 lbs.....	38.67
14 feet.....	500 lbs.....	42.74
15 feet.....	560 lbs.....	47.31
16 feet.....	625 lbs.....	51.89
18 feet.....	800 lbs.....	66.14
20 feet.....	990 lbs.....	79.37
Extra filling doors, each.....		\$1.71
Crating extra.		

Above prices do not include wood curb or clamps for masonry silos.



When ordering Gambrel Silo Roofs always state what material silo is constructed of and give outside diameter and thickness of walls.

Instruction sheet for erecting furnished with each Badger Gambrel Silo Roof.

95

## DORMER WINDOWS FOR ANY SIZE GAMBREL ROOF—F. O. B. La Crosse, Wis.

We can furnish any size Badger Gambrel Silo Roof with Dormer Windows at following extra net prices:

No. 3. Small Dormer—without sash and glass..\$4.95

No. 3. Small Dormer—with sash and glass..... 7.62

No. 4. Large Dormer—without sash and glass.. 9.90

No. 4. Large Dormer—with sash and glass.....12.71

Crating extra.

Dormers always shipped set up complete—saving time of assembly on job.

No. 7 BADGER GALVANIZED CORRUGATED SILO CHUTES—F. O. B. La Crosse, Wis.	
29 Ga., 1¼" Corrugation.....	\$ .43 per lin. ft.
28 Ga., 1¼" Corrugation.....	.47 per lin. ft.
26 Ga., 1¼" Corrugation.....	.51 per lin. ft.
Tops for Covering Badger Silo Chutes	
Galvanized Top (plain) each.....	\$1.25
Galvanized Top, equipped with plain ribbed glass forming a skylight, each.....	3.85
Galvanized Top, equipped with wire ribbed glass forming a skylight, each.....	4.00
Crating Extra.	

## DEFINITION OF ZONES APPLYING TO METAL LATH AND CORNER BEAD

### ZONE 2

Upper Michigan, Wisconsin, except following counties: Kenosha, Racine, Walworth, Rock, Milwaukee, Dodge, Waukesha, Jefferson, Lane, Ozaukee, Washington, Sheboygan, Fond du Lac, Manitowoc, Calumet, Winnebago, Outagamie, Kewaunee and Brown. City of Duluth; Hennepin, Ramsey and Washington Counties in Minnesota, also all towns in Minnesota on the West bank of St. Croix River, also all towns in Minnesota, Iowa and Missouri on the west bank of the Mississippi River.

### ZONE 3

States of Minnesota\*, Iowa\*, Missouri\* (\*except counties and river towns as provided for in Zone 2), Tennessee, North Carolina, South Carolina, Georgia, Alabama and Mississippi; that portion of Louisiana east of the Mississippi River; that portion of Florida west of the Apalachicola River; Nassau, Duval, and Leon Counties, Florida; cities of Grand Forks, Fargo and Wahpeton, No. Dakota; Minnehaha County, So. Dakota; all towns in Nebraska and Kansas on the west bank of the Missouri River; all towns in Arkansas and Louisiana on the west bank of the Mississippi River.

### ZONE 4

States of North Dakota (except cities of Grand Forks, Wahpeton and Fargo in Zone 3), South Dakota (except Minnehaha County in Zone 3), Nebraska\*, Kansas\* and Arkansas\* (\*except river towns as provided for in Zone 3); that portion of Florida east of the Apalachicola River (except Nassau, Duval, and Leon Counties in Zone 3); that portion of Louisiana west of the Mississippi River (except river towns as provided for in Zone 3); following Counties in Oklahoma: Washington, Nowata, Craig, Ottawa, Delaware, Mayes, Rogers, Tulsa, Wagoner, Cherokee, Adair, Muskogee and Sequiyah.

98

Delivered prices to Dealers per square yard.

## NETMESH DIAMOND EXPANDED METAL LATH

	Zone 2	Zone 3	Zone 4
2.20 lb. Painted.....	\$ .16	\$ .18	\$ .19
2.50 lb. Painted.....	.17	.19	.20
3.00 lb. Painted.....	.19	.21	.22
3.40 lb. Painted.....	.20	.22	.23
2.50 lb. Galvanized.....	.20	.22	.23
3.40 lb. Galvanized.....	.23	.25	.26
3.40 lb. Ptd. Armco or Toncan.....	.24	.26	.27

For Furlath or Corrugated Lath add 1c per sq. yd.

For Painted Lath cut from Coppered Metal add 1c per sq. yd.

Zinc and Copper Lath.....Write for prices.

No freight allowed on orders for less than 100 sq. yds.



**STAY RIB METAL LATH NO. 1**

Ribs  $\frac{1}{2}$ " wide and  $1\frac{3}{4}$ " apart, center to center.

	Zone 2	Zone 3	Zone 4
2.75 lb. Painted.....	\$ .19 $\frac{1}{2}$	\$ .21 $\frac{1}{2}$	\$ .22 $\frac{1}{2}$
3.00 lb. Painted.....	.21	.23	.24
3.40 lb. Painted.....	.22	.24	.25
4.00 lb. Painted.....	.24	.26	.27
3.40 lb. Galvanized.....	.25	.27	.28
3.40 lb. Ptd. Armco or Toncan.....	.26	.28	.29

For Painted Lath cut from Coppered Metal add 1c per square yard.

**STAY RIB METAL LATH NO. 2 ( $\frac{3}{8}$ " Rib)**

3.00 lb. Painted.....	\$ .21	\$ .23	\$ .24
3.40 lb. Painted.....	.22	.24	.25
4.00 lb. Painted.....	.24	.26	.27
3.40 lb. Galvanized.....	.25	.27	.28
3.40 lb. Ptd. Armco or Toncan.....	.26	.28	.29

For Painted Lath cut from Coppered Metal add 1c per square yard.

No freight allowed on orders for less than 100 sq. yds.

**CORNER BEADS**

Dealers Net delivered prices per 1000 linear feet, crated or uncrated.

**SUPERIOR CORNER BEAD**

	Zone 2	Zone 3	Zone 4
Outside or Inside.....	\$23.50	\$25.00	\$25.50

**EXPANSION CORNER BEAD**

	Zone 2	Zone 3	Zone 4
Outside or Inside.....	\$30.00	\$31.50	\$32.00

No freight allowed on orders for less than 500 feet of Corner Beads—on orders for less than 500 feet  $\frac{1}{4}$ c per foot net extra, plus a 50c charge for the crate.

**CORNER LATH**

Packed 504 lin. ft. per bundle—we do not break bundles.

	Zone 2	Zone 3	Zone 4
2"x2" Corner Lath—Ptd.....	\$11.50	\$13.50	\$14.50
3"x3" Corner Lath—Ptd.....	12.50	14.50	15.50
4"x4" Corner Lath—Ptd.....	13.50	15.50	16.50
2"x2" Corner Lath—Galv. ...	14.50	16.50	17.50
3"x3" Corner Lath—Galv. ...	15.50	17.50	18.50
4"x4" Corner Lath—Galv. ...	16.50	18.50	19.50

For prices on greater widths of Corner Lath add \$2.00 per 1000 lin. ft. for each additional inch width.

**LATH STRIPS**

Packed 504 lin. ft. per bundle—We do not break bundles.

Dealers Net Delivered Prices per 1000 Linear Feet

	Zone 2	Zone 3	Zone 4
3" wide Painted.....	\$ 7.50	\$ 9.50	\$10.50
4" wide Painted.....	8.50	10.50	11.50
3" wide Galvanized.....	10.50	12.50	13.50
4" wide Galvanized.....	11.50	13.50	14.50

For prices on greater widths of Lath Strips, add \$1.25 per 1000 lin. ft. for each additional inch width.

No freight allowed on orders for less than 1000 feet of Lath Strips or Corner Lath.

**WALL TIES—F. O. B. La Crosse, Wis.**

Badger Galvanized Wall Ties.....\$2.00 per 1000

In lots 10,000 to 50,000..... 1.80 per 1000

**CORRUGATED ROUND END TANKS**

Page 102	No.	Width Feet	Height Feet	Length Feet	Capacity Barrels	Net Each
	RE 223	2	2	3	2 $\frac{1}{4}$	\$ 4.07
	RE 224	2	2	4	3	4.66
	RE 225	2	2	5	3 $\frac{3}{4}$	5.62
	RE 226	2	2	6	4 $\frac{1}{2}$	6.55
	RE 227	2	2	7	5 $\frac{1}{2}$	7.51
	RE 228	2	2	8	6 $\frac{1}{4}$	8.44
	RE 2210	2	2	10	8	10.32
	RE 2525	2 $\frac{1}{2}$	2	5	4 $\frac{3}{4}$	6.29
	RE 2526	2 $\frac{1}{2}$	2	6	5 $\frac{3}{4}$	7.33
	RE 2527	2 $\frac{1}{2}$	2	7	7	8.40
	RE 2528	2 $\frac{1}{2}$	2	8	8	9.44
	RE 25210	2 $\frac{1}{2}$	2	10	10 $\frac{1}{4}$	11.54
	RE 328	3	2	8	9 $\frac{1}{2}$	10.40
	RE 3210	3	2	10	12 $\frac{1}{4}$	12.73
	RE 3212	3	2	12	15	15.17
	RE 428	4	2	8	12 $\frac{3}{4}$	11.99
	RE 4210	4	2	10	16 $\frac{1}{4}$	14.54
	RE 4212	4	2	12	20	17.21
	RE 4214	4	2	14	23 $\frac{1}{2}$	19.76
	RE 4216	4	2	16	27 $\frac{1}{4}$	22.31
	RE 5212	5	2	12	24 $\frac{3}{4}$	19.65
	RE 5216	5	2	16	33 $\frac{3}{4}$	25.31
	RE 6210	6	2	10	23 $\frac{3}{4}$	18.65
	RE 6216	6	2	16	41	28.27

Corrugated Round End Tanks—24" high (all other sizes).....63%

Corrugated Round End Tanks—12", 18" and 30" high.....61%

**CORRUGATED ROUND TANKS**

No.	Diameter Feet	Height Feet	Capacity Barrels	Net Each
R-32	3	2	3	\$ 5.17
R-42	4	2	5	6.64
R-52	5	2	8 $\frac{1}{2}$	8.40
R-62	6	2	12 $\frac{1}{2}$	10.71
R-72	7	2	17 $\frac{1}{4}$	13.57
R-82	8	2	22 $\frac{3}{4}$	17.64

Corrugated Round Tanks—24" high (all other sizes).....58%

Corrugated Round Tanks—12", 18" and 30" high.....56%

**CORRUGATED ROUND END WAGON TANKS**

No.	Width Ft.	Height Ft.	Length Ft.	Capacity Barrels	Net Each
REW224	2	2	4	3	\$10.66
REW225	2	2	5	3 $\frac{3}{4}$	11.99
REW226	2	2	6	4 $\frac{1}{2}$	13.32
REW228	2	2	8	6 $\frac{1}{4}$	15.32
REW2528	2 $\frac{1}{2}$	2	8	8	17.32
REW25210	2 $\frac{1}{2}$	2	10	10 $\frac{1}{4}$	19.98
REW328	3	2	8	9 $\frac{1}{2}$	19.68
REW3210	3	2	10	12 $\frac{1}{4}$	21.68

105 Corrugated Square End Tanks—24" high.....58%

Corrugated Square End Tanks—30" high.....56%

All Corrugated Tanks equipped with 1" Lock Nut Connection and Plug.

**Freight Allowance on Corrugated Tanks**

Nested—Full freight allowed not to exceed rate of \$1.00 per 100 pounds.

Single—No Freight Allowance.



Catalog  
Page

106	Plain Round End Tanks.....	53%
107	House Tanks.....	50%
	Sweat Pans.....	50%
	Cone Covers.....	50%
	Oil and Gasoline Tanks.....	Write for Prices
108	Corrugated Grain Bins, 500 Bu. \$90.75; 1,000 Bu. \$134.75 Each.....	Net
109	Plain Cisterns with Cone Covers.....	47%
	Corrugated Cisterns with Cone Covers.....	40%
110-111	Round Storage Tanks.....	50%
112	Flat and Cone Covers.....	50%
113	Style V Hog Troughs.....	50%
	Style U Hog Troughs—Net Price Each:	
	1½' 2' 3' 4' 5' 6' 8' 10'	
	\$ .75 \$ .85 \$1.10 \$1.35 \$1.60 \$1.85 \$2.45 \$3.20	
	No. FP17 Corrugated Round Feed Pans—	
	26 Ga. \$2.30 doz.; 24 Ga. \$2.55 doz.; 22 Ga. \$3.25 doz.	
114	Square End Pans and Troughs.....	60%
115	Boiling and Sap Pans and Tobacco Pans.....	47%
116	Tank Floats 9"x2½" \$.45 12"x2½" \$.55 Each	
	Corrugated Culverts.....	Write for prices
	Portable Smoke Houses.....	Write for Prices
117	Badger Tank Heaters—20 Gauge....	Each Net.. \$5.50
	Badger Tank Heaters—18 Gauge....	Each Net.. 6.50
	Badger Tank Heaters—16 Gauge....	Each Net.. 7.50
	Sheep and Hog Dipping Tanks.....	45%
118	"E-Z" Screw Joint Well Casing.....	40%
	Casing Tongs.....	40%
119	Gravel Shoes.....	80%
	Perforated Casing.....	Net
120	1½" Cypress Tanks.....	41%
	1½" Redwood Tanks.....	48%
	1½" Fir Tanks.....	54%
	2 " Cypress Tanks.....	14%
	2 " Redwood Tanks.....	29%
	2 " Fir Tanks.....	44%
121	1½" Cypress Tanks.....	43%
	1½" Redwood Tanks.....	50%
	1½" Fir Tanks.....	56%
	2 " Cypress Tanks.....	19%
	2 " Redwood Tanks.....	32%
	2 " Fir Tanks.....	47%

122 **BADGER GALVANIZED COAL CHUTES**

No. W— 5 ft. Window.....	\$8.00 each
No. W— 6 ft. Window.....	8.80 each
No. E— 5 ft. Extension.....	6.90 each
No. E— 6 ft. Extension.....	7.45 each
No. E— 8 ft. Extension.....	8.80 each
No. E—10 ft. Extension.....	9.90 each
No. E—12 ft. Extension.....	13.20 each
No. T— 5 ft. Taper.....	6.90 each
No. T— 6 ft. Taper.....	7.45 each
No. T— 8 ft. Taper.....	8.80 each
No. T—10 ft. Taper.....	9.90 each
No. T—12 ft. Taper.....	13.20 each

123 **MAJESTIC SPECIAL COAL CHUTES**  
Net Price Each

No. 60 Glass Panel—No Hopper.....	\$7.43
No. 50 Steel Panel—No Hopper.....	4.84

**MAJESTIC QUALITY COAL CHUTES**  
Net Price Each

No. 10-A, Glass Panel—Hopper.....	\$11.44
No. 10-C, Glass Panel—No Hopper.....	10.35
No. 500-, Steel Panel—No Hopper.....	6.71
No. 101B, Steel Panel—Hopper.....	8.93
No. 101D, Steel Panel—No Hopper.....	7.88
Special price on quantity orders.	

All Prices on this page F. O. B. La Crosse, Wis., with exception of Wood Tanks on catalog pages 120 and 121 which are F. O. B. Waupun, Wis.

**PREPARED ROOFING**  
Refer to  
**Special Prepared Roofing Price List**

125

**PLASTIC ROOF CEMENT**

**Ruberoid—Black**

Quantity	Approx. Wt.	Net per lb.
Barrel (Metal) 55 Gal.....	600 lbs.	\$ .04
Half Barrels (Metal) 30 Gal. ....	330 lbs.	.04 1/2
50 lb. Pails.....	56 lbs.	.05
10 lb. Pails ( 6 to case).....	70 lbs.	.07
5 lb. Pails (12 to case).....	71 lbs.	.08
1 lb. Cans (36 to case).....	46 lbs.	.10

**Rutland—Black**

50 lb. Pails.....	56 lbs.	\$ .05
25 lb. Pails.....	30 lbs.	.06
10 lb. Pails ( 4 to case).....	47 lbs.	.07 1/2
5 lb. Pails (12 to case).....	80 lbs.	.08
1 lb. Cans (24 to case).....	32 lbs.	.10

**Rutland—Red**

10 lb. Pails ( 4 to case).....	47 lbs.	\$ .09 1/2
5 lb. Pails (12 to case).....	80 lbs.	.10

**ASBESTOS ROOF COATING**

**Ruberoid—Black**

Quantity	Approx. Wt.	Net per Gal.
Barrel (Metal) 55 Gal.....	505 lbs.	\$ .34
Half Barrels (Metal) 30 Gal. ....	280 lbs.	.36
5 Gallon Pails.....	48 lbs.	.37
1 Gallon Pails (6 to case).....	58 lbs.	.48

**Rutland No-Tar-In-Black**

Barrel (Metal) 50 Gal.....	483 lbs.	\$ .35
Half Barrel (Metal) 25 Gal.....	247 lbs.	.38
5 Gallon Pails.....	46 lbs.	.42
1 Gallon Pails (4 to case).....	41 lbs.	.52

**ASPHALT ROOF PAINT**

**Ruberoid—Black**

Quantity	Approx. Wt.	Net per Gal.
Barrel (Metal) 55 Gal.....	465 lbs.	\$ .33
Half Barrels (Metal) 30 Gal. ....	250 lbs.	.35
5 Gallon Pails.....	41 lbs.	.36
1 Gallon Pails (6 to case).....	54 lbs.	.47

**BADGER GOLDEN BRAND—Green**

	Approx. Wt.	Net per Gal.
1 Gallon Pails (4 to case).....	43 lbs.	\$1.90

**RED METAL PAINTS**

	1 Gallon Cans (4 Cans to a Case)	Per Gal.
No. 514 Badger Tinnners Red.....		\$1.35
Rutland Red Metal Paint.....		1.70

**BADGER ASPHALT ALUMINUM PAINT**

**No. S-833**

	Cans Per Case	Case Lots	Less Case
5 gallon cans.....	1	\$2.40	\$2.40 per gal.
1 gallon cans.....	4	2.65	2.80 per gal.
1 quart cans.....	18	.85	.90 per qt.
1 pint cans.....	32	.45	.50 per pt.

**LAP CEMENT**

	Net per Can
Fixture Cans (24 to case).....	30 lbs. \$ .09

**ROOFING BRUSHES**

3-Knot.....	\$ .55 each
4-Knot.....	.70 each
Handles.....	.15 each

**MOP HEADS**

Selected slasher, made of white Line thread.	
16 oz.....	\$3.20 per doz.
20 oz.....	4.00 per doz.

<b>Cotton Twine Roofing Mop with Long Handles</b>	
16 oz.....	\$5.25 doz.
20 oz.....	6.35 doz.

All Prices on this page, F. O. B. La Crosse, Wis.  
Boxing Charged Extra on orders for less than Case Lots, on Roof Cements, Coating and Paints.



126	Diameter Firepot	Without Casing	With Casing
	20 Inch.....	\$53.75	\$60.75
	22 Inch.....	63.00	71.50
	24 Inch.....	72.50	81.75
	26 Inch.....	83.25	98.75
	28 Inch.....	100.75	114.50

## 127 BADGER ERA PIPELESS FURNACES

F. O. B. La Crosse, Wis.

## Cased Complete With Register

22 Inch.....	\$93.50
24 Inch.....	107.25

## 128 BADGER APEX STEEL FURNACES

F. O. B. GALENA, ILL.

	Without Casing	With Casing
22 Inch .....	\$56.50	\$65.25
24 Inch .....	66.00	75.50
27 Inch .....	83.00	93.25

## 129 LAU Package Unit Blowers—Less Control

Price F. O. B. La Crosse, Wis.

Unit No.	Size Furnace	Blower Wheel	H. P.	Approx. Weight	Dealer Net Price
401	20 & 22"	10 $\frac{5}{8}$ "x10"	1/6	150 lbs.	\$44.50
403	24"	12 $\frac{5}{8}$ "x12 $\frac{1}{2}$ "	1/6	200 lbs.	57.60
703	26 & 28"	12 $\frac{5}{8}$ "x12 $\frac{1}{2}$ "	1/4	234 "	67.60

Above equipped with variable speed pulley, blower, motor, blower casing, filters, belt and blower pulley. If Minneapolis-Honeywell Control is wanted this is \$5.25 extra.

**Deductions:**

If Motor is not desired deduct \$6.00—if Filters are not wanted 50c each.

## LAU ASSEMBLY WITH MOTOR

Prices F. O. B. La Crosse, Wis.

Unit No.	Size Furnace	Blower Wheel	H. P.	Approx. Weight	Dealer Net Price
401HVSM	20 to 24"	10 $\frac{5}{8}$ "x10"	1/6	79 lbs.	\$31.10
112HVSM	26 & 28"	12 $\frac{5}{8}$ "x12 $\frac{1}{2}$ "	1/4	109 "	36.95

Above equipment consists of Blower Assembly, Variable Speed Pulley, belt, blower pulley, motor and motor mounting. If Minneapolis-Honeywell Control is wanted this is \$5.25 extra. Filters \$1.00 each extra.

**Deduction.**

If Motor in not desired deduct \$6.00.

For other LAU Blowers, etc. write for prices.

## REGISTERS

130-131	U. S. Air Conditioning Registers.....	40%
132	Jones-National Register.....	40%
	Jones-National Register Boxes.....	40%
133	Jones-National Registers.....	40%
	Jones-National Register Boxes.....	40%
134	Jones-National Registers.....	40%
135	National Baseboard Registers.....	40%
136	National Convex Registers.....	40%
	National Baseboard Cold Air Faces.....	40%
	National Convex Vent Faces.....	40%
137	U. S. Steel Floor Registers (all sizes).....	40%
	U. S. Steel Floor Register Faces (all sizes).....	40%
	U. S. Special Steel Faces.....	40%
138	U. S. Cast Checker Faces.....	40%
	U. S. Wood Faces (all sizes).....	60%
	U. S. Adjustable Ceiling Ventilators.....	40%

For Quantity Discount and Freight Allowance on Registers see next page.

### Quantity Reduction On Registers

On shipments of 50 pieces or more in one-lot shipments to one destination we offer a 5% discount beyond the discounts listed above applying to Catalog pages 130 to 138 inclusive.

### Register Freight Allowance

Actual freight allowed on orders for fifty or more pieces or \$50.00 net in one shipment to all points east of a line drawn from Duluth, Minn., through Minneapolis, Minn., Sioux Falls, S. D., Sioux City, Iowa, Omaha, Nebr., and thence south along the Missouri River and to all points north of the Ohio River and Washington, D. C. To all points west and south of these lines, freight equalized to nearest crossing point.

### No Freight Allowed On Shipments Other Than Noted Above

Orders of Jones National, National, Air Conditioning, Floor Registers, Borders and Steel Faces may be added together to make 50 pieces on which freight will be allowed as above. Wood faces cannot be included to make up quantity for freight allowance on registers, nor can Flat Steel Grilles be included to make Freight Allowance.

138	Indicator Handles.....	10c per set
	Sidewall or Ceiling Pulleys.....	30c per pair

### 139 IWANS REVOLVING CHIMNEY TOPS

#### Net Price per Dozen

Inches	6	7	8
Top Complete.....	\$21.60	\$23.40	\$25.20
	9	10	12
	\$28.80	\$31.50	\$42.00
	6	7	8
Mountings .....	\$ 9.44	\$ 9.76	\$10.88
	9	10	12
	\$11.75	\$16.00	\$21.50

### No. 2 ADAMS ASH PIT DOORS

Size	Net per Doz.	Size	Net per Doz.
8x 8 in.....	\$ 7.20	8x12 in.....	12.00
8x10 in.....	8.80	10x12 in.....	13.60

No. 1 ADAMS ASH DUMPS.....Per dozen \$6.00

### BEST CHIMNEY CAPS

#### Net Prices per Dozen

No. 10	Collar for 7 inch Pipe.....	\$13.00
No. 10½	Collar for 8 inch Pipe.....	13.50
No. 12	Collar for 10 inch Pipe.....	23.50

Extra legs for Chimney Caps \$ .10 each.

### No. 1 FURNACE END CHECK DAMPERS

8 inch.....	Net Each \$ .96
9 inch.....	Net Each 1.11

### No. 3 FURNACE CHECK DAMPERS

7 and 8 inch size.....	Net Each \$ .60
9 and 10 inch size.....	Net Each .60

### No. 10 ADAMS DOME DAMPERS

Front inches	Throat opening inches	Wt. each crated lbs.	Net prices each
30.....	24x10.....	37.....	\$4.80
36.....	30x10.....	42.....	5.60
42.....	36x10.....	53.....	7.20



Catalog	<b>FURNACE PIPE AND FITTINGS</b>	
Page	Single and Double Pipe and	
140-145	Fittings.....	70-10%
146-147	Ceiling Plates and Transition Heads.....	70-10%
	Galvanized Furnace Pipe, Elbows and Angles in	
	sizes 3" to 12" inc. in 28, 26 and 24 gauges ...	75-10%
	Galvanized and Black Steel and Tin Furnace Pipe	
	and Fittings (with above exceptions) .....	70-10%
	Galvanized Toncan or Galvannealed Furnace	
	Pipe and Elbows (all sizes and any quan-	
	tity) Discount Applies to Steel lists.....	66-10%
148	Y Joints, Casing Collars, T Joints, Draw Bands	70-10%

#### CHIMNEY THIMBLES

	Diameter	6"	7"	8"	9"	10"	12"
	Net Each..\$	.11	.11	.13	.15	.16	.19
	For 6" Long add	15% to above.					
	For 8" Long add	30% to above.					
	Register Boxes (list prices page 145).....	70-10%					
149	Galvanized Cold Air Shoes.....	70-10%					
150-164	Forced Air Ducts and Fittings.....	70-10%					

165	Furnace Casing Bonnets—Send specifications for prices	
	Badger Wire Grilles.....Send specifications for prices	
	No. 300 Furnace Regulator Set.....\$ .95 per set	
	No. 91 Safety Chain (100 lin. ft. in	
	a box.....	1.65 per box
	No. 10 Furnace Pulley—Screw Eye .	.40 per dozen
	No. 11 Furnace Pulley—Stationary	
	Screw.....	.45 per dozen

#### 166 THERMO-DRIP HUMIDIFIER

Net Price Each			
F. O. B. Cedar Falls, Iowa			
No. 21S.....	\$10.50	No. 13 S-C .....	\$ 9.00
No. 16S.....	10.00	No. 13 S-B .....	8.95
No. 15S.....	9.75	No. 13 S-A .....	8.90
No. 14S.....	9.50	No. 12 S.....	9.50
No. 13 S-E.....	9.35	No. 11 S.....	9.50
No. 13 S-D.....	9.25	No. 24 S.....	10.50

#### BADGER HUMIDIFIER

Net Price Each			
F. O. B. Milwaukee, Wis.			
	Single	Lots of	Lots of
	Lots	3	12
No. 248G.....	\$8.95	\$8.45	\$7.95
No. 245S .....	8.95	8.45	7.95
No. 188G.....	8.50	7.95	7.45
No. 185S .....	8.50	7.95	7.45

#### BADGER RADIATOR COVERS

Send specifications for prices.

#### 167 ASBESTOS SHEATHING

No. 12 and 14-18" and 36" wide, 50 lb. Rolls	
Less than full Rolls.....	\$7.75 per 100 lbs.
Full Rolls.....	6.75 per 100 lbs.

#### ASBESTOS PIPE-JOINT TAPE

1000 Lineal Feet per package, 12 rolls, each 3 inches wide. Net Price.....per package \$3.60

#### RUTLAND ASBESTOS FURNACE CEMENT

1 lb. cans (24 to case).....	\$ .09 per lb.
5 lb. cans (12 to case).....	.07 per lb.
10 lb. cans ( 6 to case).....	.07 per lb.
Boxing extra in less than case lots.	

#### ASBESTOS DRY FLOUR PASTE

	Net Price
	per Package
5 lb. Bags.....	\$ .50
10 lb. Bags.....	1.00
25 lb. Drum.....	2.40
50 lb. Drum.....	4.40
100 lb. Jute Sack.....	8.00

All Prices F. O. B. La Crosse unless otherwise specified. On Furnace Fitting shipments of \$50.00 or more, net freight allowed within same boundaries as Registers (see page 25).

**FIRELINE**

Net Prices per 100 Lbs.

100 lb. Drums.....	\$4.50
50 lb. Drums.....	4.80
10 lb. Cans .....	5.40
5 lb. Cans .....	6.00

**FURNACE FANS**

Net Price Each.....	\$4.00
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**3 SPEED CONTROL UNIT**

Net Price Each.....	\$1.50
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**CAST IRON DAMPERS**

Net Price per Dozen

3 Inch.....	\$ .95	8 Inch.....	\$2.85
4 Inch.....	1.00	9 Inch.....	4.25
5 Inch.....	1.10	10 Inch.....	5.40
6 Inch.....	1.25	12 Inch.....	6.45
7 Inch.....	1.75		

**WARM AIR DAMPERS**

Net Price Each

6 Inch.....	\$ .11	12 Inch.....	\$0.26
7 Inch.....	.14	14 Inch.....	.30
8 Inch.....	.16	16 Inch.....	.35
9 Inch.....	.19	18 Inch.....	.43
10 Inch.....	.22	20 Inch.....	.54

**DAMPER CLIPS AND TAILS—"No Rivet"**

Net Prices per Doz.

Per Gross

Clips.....	\$0.65	\$7.00
Tails.....	.15	1.60

**DIAL DAMPER REGULATOR SETS**

No. 145— $\frac{1}{4}$ " (complete set).....	\$0.20 each
No. 19— $\frac{3}{8}$ " (complete set).....	.30 each

**GOESE DAMPER CONTROLS**

Net Price per Dozen Sets.....	\$1.80
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**HYRO DAMPER QUADRANTS**

$\frac{3}{8}$ " Galvanized.....	\$ .36 each
$\frac{1}{2}$ " Galvanized.....	.42 each
$\frac{5}{8}$ " Black.....	1.35 each
$\frac{3}{4}$ " Black.....	2.75 each
$\frac{7}{8}$ " Black.....	2.75 each

**DAMPER ROD CLIPS**

$\frac{3}{8}$ " Galvanized.....	\$2.50 per 100
$\frac{1}{2}$ " Galvanized.....	3.35 per 100
$\frac{5}{8}$ " Galvanized.....	4.65 per 100
$\frac{3}{4}$ " Galvanized.....	5.40 per 100
$\frac{7}{8}$ " Galvanized.....	6.25 per 100

**DAMPER BEARINGS**

$\frac{3}{8}$ " Galvanized.....	\$0.12 per set
$\frac{1}{2}$ " Galvanized.....	.15 per set

**UNIFORM BLUE STOVE PIPE**

Net Prices per 100—24" Joints

Size	26 Ga.	28 Ga.
3 Inch.....	\$10.55	\$ 8.75
4 Inch.....	11.05	9.25
5 Inch.....	11.80	10.00
6 Inch.....	12.55	10.75
7 Inch.....	14.55	12.75
Quarter Joints $\frac{1}{4}$ price of full joints plus \$1.00 per 100 joints.		
Half Joints half price of full joints plus \$1.00 per 100 joints.		
Three-Quarters Joints $\frac{3}{4}$ price of full joints plus \$1.00 per 100 joints.		
28" Joints add 25% to 24" prices.		
30" Joints add 33 $\frac{1}{3}$ % to 24" prices.		
Taper Joints prices same as large end pipe plus \$1.00 per 100 joints.		



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## UNIFORM COLOR STOVE PIPE ELBOWS

Net per Dozen

Corrugated 2 $\frac{3}{8}$ " Ends Adjustable

	26 Ga.	28 Ga.	26 Ga.	28 Ga.
3 Inch.....	\$1.30	\$1.05	\$1.75	\$1.45
4 Inch.....	1.35	1.10	1.80	1.50
5 Inch.....	1.40	1.15	1.85	1.55
6 Inch.....	1.45	1.20	1.90	1.60
7 Inch.....	1.70	1.45	2.15	1.85
TEE Joints 6" on 6"—26 Ga. per dozen.....	\$4.35			
28 Ga. per dozen.....	\$3.50			

## FLUE REDUCERS

28 Gauge—All sizes.....	\$1.50 per dozen
26 Gauge—All sizes.....	1.60 per dozen
7—6" Oval Stove Pipe Reducers: packed 1 dozen per carton.	
28 Ga.....	\$2.00 per dozen
26 Ga.....	2.25 per dozen
No. 160 Stove Pipe Collars—6" Lacquered, per doz. \$	.39
7 Inch Lacquered, per dozen.....	\$ .48
No. 3 Clarks Gem Flue Stops—Green, per doz. \$	.90

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## ANGLES, BANDS, AND ROUNDS

Net Prices Per 100 Pounds

### Galvanized Angles

Size Inches	Under 100 lbs.	100 lbs. to 399 lbs.
$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{1}{8}$ .....	\$9.32	\$8.32
1 x1 x $\frac{1}{8}$ .....	8.57	7.57
1 $\frac{1}{4}$ x1 $\frac{1}{4}$ x $\frac{1}{8}$ .....	8.12	7.12
1 $\frac{1}{2}$ x1 $\frac{1}{2}$ x $\frac{3}{16}$ .....	7.79	6.79
2 x2 x $\frac{3}{16}$ .....	7.52	6.52

### Black Angles

$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{1}{8}$ .....	\$5.99	\$4.99
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### Galvanized Bands

$\frac{3}{4}$ x No. 12.....	\$12.18	\$11.18
1 x No. 14.....	13.88	12.88
1 x $\frac{1}{8}$ .....	10.08	9.08
1 $\frac{1}{2}$ x $\frac{1}{8}$ .....	9.67	8.67
2 x $\frac{1}{8}$ .....	9.49	8.49
1 x $\frac{3}{16}$ .....	9.49	8.49

## ROUNDS—Mild Steel

### Galvanized

$\frac{9}{16}$ " .....	\$8.24	\$7.24
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### Black

$\frac{3}{16}$ " .....	\$7.39	\$6.39
$\frac{1}{4}$ " .....	6.39	5.39

Write for prices on quantities over 400 lbs, Angles, Bands and Rounds.

## REMOV-ALL WIRE BRUSH

Net Price Per Dozen.....	\$1.20
Net Price Each.....	.12

## FLAT HEAD RIVETS—Metallic Tinned

Net Price per 1000

8 oz.	10oz.	12 oz.	1 lb.	1 $\frac{1}{4}$ lb.	1 $\frac{1}{2}$ lb.	1 $\frac{3}{4}$ lb.
\$ .18	\$ .21	\$ .24	\$ .28	\$ .32	\$ .37	\$ .41
2 lb.	2 $\frac{1}{2}$ lb.	3 lb.	3 $\frac{1}{2}$ lb.	4 lb.	5 lb.	6 lb.
\$ .44	\$ .52	\$ .61	\$ .69	\$ .77	\$ .87	\$1.01
7 lb.	8 lb.	10 lb.	12 lb.			
\$1.18	\$1.35	\$1.64	\$1.86			

All Prices on this page, F. O. B. La Crosse, Wis.

**BRIGHT STOVE BOLTS**

Page

**Flat Head and Round Head—Net Price per 100**

170	Length	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"
	3/16" dia.....	\$ .18	\$ .19	\$ .19	\$ .21	\$ .23	\$ .26
	1/4" dia.....	.28	.30	.32	.35	.38	.41
	Length	1 3/4"	2"	2 1/4"	2 1/2"	2 3/4"	3"
	3/16" dia.....	.28	.32	.36	.40	....	.49
	1/4" dia.....	.45	.50	.54	.59	.64	.69
	5/32" x 1/2" R. H. ....		.15				

**GALVANIZED ROUND HEAD STOVE BOLTS****Net Price per 100**

Length	5/8"	3/4"
3/16" dia.....	\$ .40	.....
1/4" dia.....	.50	\$ .55

**PARKER-KALON SHEET METAL SCREWS****Net Prices per Gross**

No. 6—	3/32" x 3/8"	.....	\$0.27
No. 7—	1/8" x 1/2"	.....	.29
No. 10—	3/16" x 3/4"	.....	.41
No. 14—	1/4" x 7/8"	.....	.62
Parker-Kalon Plain Punch.....			\$0.20 each
No. 6 Parker-Kalon Stop Punch.....			.30 each
No. 7 Parker-Kalon Stop Punch.....			.30 each
No. 10 Parker-Kalon Stop Punch.....			.30 each
No. 14 Parker-Kalon Stop Punch.....			.30 each

**PARKER-KALON MASONRY NAILS**

5/32" x 1"	.....	\$0.51 per 100
1/4" x 1 1/2"	.....	.95 per 100
1/4" x 2"	.....	1.20 per 100
3/16" Parker-Kalon Masonry Drill Punch...		\$0.40 each
1/4" Parker-Kalon Masonry Drill Punch...		.40 each

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**NO. 3 SOLBAR SCREW DRIVERS**

Size	3"	5"	6"	8"	10"	12"
Each.....	\$ .33	\$ .41	\$ .47	\$ .62	\$ .78	\$ .93

**GROOVING TOOLS**

No.	000	00	0	1	2
Each.....	\$1.50	\$ .85	\$ .85	\$ .77	\$ .77
No.	3	4	5	6	
Each.....	\$ .72	\$ .72	\$ .72	\$ .72	

**RIVET SETS AND HEADERS**

No.	00	0	1	2	3
Each.....	\$ .64	\$ .64	\$ .52	\$ .52	\$ .42
No.	4	5	6	7	
Each.....	\$ .42	\$ .32	\$ .32	\$ .28	

**HOLLOW PUNCHES**

Size	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"
Each.....	\$ .64	\$ .64	\$ .64	\$ .80	\$ .96	\$1.12
Size	1"	1 1/4"	1 1/2"	1 3/4"	2"	
Each.....	\$1.28	\$1.60	\$1.92	\$2.24	\$2.56	

**No. 100 PEXTO COLD CHISELS**

Face	3/8"	1/2"	5/8"	3/4"
Each.....	\$ .15	\$ .20	\$ .25	\$ .30

**SOLID PUNCHES**

No.	1	2	5	6	7
Each.....	\$ .17	\$ .17	\$ .15	\$ .15	\$ .15
4 1/2" Prick Punch.....					\$ .15 each

**SCRATCH AWLS**

No.	01	21	22
Each.....	\$ .25	\$ .17	\$ .20

**DIVIDERS**

Size	6"	8"	10"	12"
Each.....	\$ .72	\$ .93	\$1.20	\$1.38

**WOOD ROOFING FOLDER**

No. 23C Wood Roofing Folder.....	\$7.00 each
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**BISHOP QUICK WORKING FORMS**

Size	3 1/2"	4"	5"	6"
Each.....	\$ .50	\$ .60	\$1.00	\$1.25

All Prices on this page, F. O. B. La Crosse, Wis.



### WISS TINNERS SNIPS

No.	9	8	7
Each.....	\$1.67	\$2.00	\$2.33

### WISS CIRCULAR PATTERN

No.	9 CB	8 CB
Each.....	\$2.57	\$2.93

### WISS COMBINATION PATTERN

No.	19	18	17
Each.....	\$1.83	\$2.20	\$2.53

### NIAGARA COMBINATION SNIPS

No.	614	615	616
Each.....	\$2.40	\$2.00	\$1.80

### DOUBLE CUTTING SHEARS

No.	2A	02A
Each.....	\$2.14	\$1.95

### HAWKS BILL SNIPS

No.	15	23
Each.....	\$2.33	\$2.67

### TROJAN PATTERN SNIPS

No.	79
Each.....	\$2.20

### WISS SCROLL PIVOTER SNIP

No. 9X Each.....	\$3.75
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### WISS BULLDOG SNIP

No. 17 Each.....	\$5.00
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### HANDY SLITTING CHISEL

No. 800 Each.....	\$ .90
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### HANDY SEAMERS

No.	793	795
Each.....	\$1.50	\$3.50

### HAND NOTCHER

No. 41 Each.....	\$4.00
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### LIGHT METAL SNIPS

No. J-7 Each.....	\$1.15
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### WISS METAL MASTER

No. M1 or M2 Each.....	\$3.00
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### PLIERS

	No. 40	No. 87
Size	6" 8"	8" 10"
Each.....	\$ .77 \$ .95	\$ .80 \$1.04

### IMPROVED CUTTING NIPPERS

No.	1	3
Each.....	\$2.40	\$2.29
Extra Cutters pair.....	.96	.85

### RULES AND STRAIGHT EDGE

No. 424 Stanley Aluminum.....	\$1.10 each
No. 101 Circumference Rule.....	3.20 each
No. 994—4 ft. Straight Edge.....	5.50 each
No. 995—8 ft. Straight Edge.....	9.00 each

### FIRE POT AND TORCH

No. 180 Fire Pot.....	12.27 each
No. 158A Torch.....	4.00 each
Soldering Coppers.....	Market Price

### HYRO SOLDER IRON HANDLES

No.	7	8	9
Each.....	\$ .25	\$ .25	\$ .25
Common Solder Iron Handles.....	\$0.50 per dozen		

### ACID SWABS

Gross lots, per gross.....	\$1.25
Half Gross, per half gross.....	.75
Dozen, per dozen.....	.15
Badger Warranted 50/50 Solder.....	Market Price
Acid Core Solder.....	Market Price

All Prices on this page, F. O. B. La Crosse, Wis.

**HYRO PUNCHES**

Hyro No. O. X. Metal Punch (in case)....\$6.85 each  
 Extra Punches or Dies \$ .25 each for either.  
 Hyro No. X X Metal Punch.....\$9.75 each  
 Extra Punches or Dies \$ .40 each for either.

**SILVER CITY SQUARING SHEARS**

F. O. B. Southington, Conn.

No.	132	137
Each.....	\$105.00	\$135.00

**DOGWOOD MALLET**

No.	2	2½	2¾	3
Per Dozen.....	\$2.33	\$3.33	\$3.65	\$4.00

**MILLER COMPOSITION MALLET**

No.	16	24
Each.....	\$1.00	\$1.25

**CRIMPING AND BEADING MACHINE**

No. 0581 Each.....	\$16.50
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**WHITNEY HAND PUNCH**

F. O. B. Rockford, Ill.

No. 2 Whitney Hand Punch.....\$15.00 each  
 Extra Punches and Dies.....45c for either

**RIVETING AND SETTING HAMMERS**

No.	1	2	3	4
Each.....	\$ .86	\$ .82	\$ .78	\$ .75

**CHICAGO STEEL BRAKES**

F. O. B. Chicago, Ill.

No. 420 Each.....	\$105.00
No. 520 Each.....	110.00

No. 818 Each.....	\$170.00
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Set of 5 Moulding Forms and Clamps for  
 No. 818.....\$10.00 Extra

**ARROW BAR FOLDERS**

F. O. B. Southington, Conn.

No.	62	63
Each.....	\$60.00	\$70.00

**REGULAR LIGHTNING SLIP ROLL FORMERS**

F. O. B. Southington, Conn.

No.	882	881
Each.....	\$36.00	\$40.00

Marshalltown Throatless Shear.....\$36.00 each  
 F. O. B. Marshalltown, Iowa.

**PEXTO ROTARY COMBINATION MACHINE**

No. 6544 Each.....	\$25.00
No. 7544 Each.....	25.00

**LADDERS**

4 to 8 ft. Competition Step Ladders.	\$ .19	per foot
10 ft. Special Step Ladders.....	.24	per foot
10 ft. to 16 ft. Single Ladders .....	.23	per foot
18 and 20 ft. Single Ladders.....	.23¾	per foot
20 ft. to 32 ft. Automatic Extension Ladders.....	.27½	per foot
34 ft. to 42 ft. Automatic Extension Ladders.....	.29	per foot
20 ft. to 32 ft. Auto. Ext. Ladders with Rope and Pulley.....	.29	per foot
34 ft. to 42 ft. Auto. Ext. Ladders with Rope and Pulley.....	.30½	per foot
Shipments from La Crosse stock (any quantity). F. O. B. La Crosse.		
Shipments from Factory—Full freight allowed on quantities 100 lineal feet or more.		



# BROWN BASEMENT FUEL OIL TANKS

(Not Illustrated In Catalog)

With the Underwriter's Label  
In La Crosse Stock

Brown vertical or horizontal basement tanks are designed to permit a tank to be installed in basements or out-of-the-way places where small doors and steps are encountered. These tanks are constructed of No. 14 gauge open-hearth steel weighing 210 lbs. per tank, properly designed, reinforced and Brown tested and certified oil-tight.



"Vertical"

Tanks are regularly equipped with the following openings:

2-2-inch fillers

1¼-inch vent

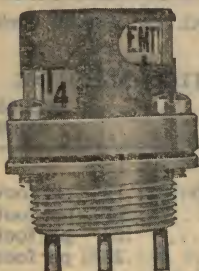
1½-inch for gauge

½-inch supply to burner

1-inch clean-out

Four (4) threaded openings, 1¼ inch for pipe legs

Number	Wide	High	Long	Capacity	Price each
Vertical B-1600-V	26"	45"	60"	260 gal.	\$17.50
Horizontal B-1600-H	45"	26"	60"	260 gal.	17.50



## TANK GAUGES

Model U4 Double Window

Bolted-head Type Gauge..\$1.75 each

## TANK LEGS

Made of 1¼" diameter Round Black Pipe—Threaded one end.

15 inches long	\$.26 each leg
16 inches long	.27 each leg
17 inches long	.28 each leg
18 inches long	.29 each leg
20 inches long	.31 each leg
22 inches long	.33 each leg
24 inches long	.35 each leg

All Prices on this page F. O. B. La Crosse, Wis.

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# Dealers Prices on Badger Sheet Metal Products

## Destroy

March, 1939 Net Price List and place this one in  
Pocket of General Catalog No. 39

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